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Appendix A – 2005/06 report of progress against operational plan

The information below summarises the results of AWI activities undertaken in 2005/06 against operating targets.

Textiles/Product Development	
Fundamental Wool Science	
Targets for 2005/06	Performance against target
Presentation at the International Wool Textile Research conference in Leeds of ten papers on scientific studies into the surface, the structure and morphology of wool fibres that limit technical advances in processing and product performance (eg pilling and handle).	Successfully completed.
Establish an information database on the fine structure of wool fibres that can evaluate the implications of new technologies on fibre properties.	Successfully completed, database has been transformed into an interactive CD showing structural analysis of wool and is under evaluation at AWI.
Assess a range of thioesterases for the removal of the lipid layer on the surface of wool.	Completed with demonstration that no current enzymes can successfully cleave the lipid layer from the surface of the fibre.
Understand the role of the fluorescent whitening agents in the creation of chromophores and other proteins in irradiated wool so that accelerated photoyellowing can be reduced.	Work progressing with outcome expected towards June 2007.
Complete the evaluation of nano-technology for reducing yellowing of wool.	Completed, demonstrating that the effect of nano-adsorbing agents was not an effective method of reducing yellowing.
Relationship between yarn torsional characteristics and fabric appearance established.	Work progressing with a useful method of reducing spirality developed, although at this time not yet commercially applicable.
The Processing of Merino Fibre	
Targets for 2005/06	Performance against target
Commercial release of a new detergent for low temperature scouring.	Technical package for low temperature scouring is now available. Mill trial in China was not successful due to difficulties in process control. Mill trial in Europe is being planned.
Commercial volumes of novelknit (sliverknit) fabric produced by Yorkshire Fur and Furpile.	Insignificant volume generated as the wool noils required are in short supply and too expensive.
Deliver to Rhom and Hass the technical package and test fabrics, for use of "Color-Clear" bleaching agent in wool.	Technical package delivered and trialed in three mills.
First sales of Total Easy Care pure wool trousers and jackets from TAL.	4,500 pairs of washable wool trousers.
Technology for spinning wool blends on Murata vortex spinning machinery transferred to two spinners and fabrics manufactured.	Technology successfully transferred to a company in Hong Kong. Transfer is currently underway with another partner in Indonesia, for wool/cotton fleece tops.
Publication and distribution of a technical package containing the knowledge and techniques to produce low-pill wool knitwear.	Report is being condensed for publication on the web.
Deliver TEC technology for pure wool garments with two companies in China, one in S Korea, one in India and two in Europe.	Not completed.
Complete a series of technology transfer trials in top dyeing of wool to four companies in China.	Trials successfully completed and adopted at all companies. The changes have resulted in improved quality at these target mills.
Work with three makers of wool trousers to develop wrinkle recovery and crease stabilisation technology.	New technology demonstrated at lab scale at Hong Kong Polytechnic University. Mill trials planned in Europe in October 2006.
In conjunction with The Woolmark Company, improve the production efficiency of the Optim™ machine.	Not initiated due to no sale of Optim™.
Commercialise chrome-free, lightfast vat dyeing technology for wool.	Two technologies developed. One demonstrated at mill level. Comparison of technologies underway to select most appropriate marketing package.
Evaluate the Canesis Aurora™ wool carpet bright dyeing process in apparel wools.	Preliminary results indicate that bright dyes can be applied using aurora technology and that the treated fibre can be spun without problem.

Develop pilot scale evaluation of new oxidants for wool top, in readiness for industrial trials.	Lab trials are still inconclusive.
Complete evaluation of differential bleaching of wool/synthetic blends using dispersive dyes.	Successful technology developed and trialed successfully in mills. Marketing plan is being developed.
Evaluate the technical feasibility of using water fibrillation to enhance softness of pure wool fabrics.	Project terminated as fabric softness is not acceptable.
Develop the technology required to spin wool in blends with synthetic microfibres and produce test fabrics with commercial partners.	Test fabrics successfully produced. Technology documents in preparation. Some problems with suitable polyester fibre supply delayed finalisation of outcomes. Transfer to commercial companies planned from September to December 2006.
Evaluate the use of chemical splitting technology on wool and wool blend fabrics for the production of superfine fabrics.	Preliminary pilot trials using mechanical approach has produced fabrics with enhanced softness. Larger range to be produced with commercial input. Alternative approach by developing a wool compatible splitting fibre has yielded some success in fibre production trials.
Complete feasibility trials on the compact card, develop methods for minimising fibre breakage, and make a decision on a development phase.	New approaches lacked commercial impact. Project stopped with agreement of all partners.
Complete evaluation of Excimer Laser wool surface modification to improve fabric printing and reduce pilling.	Excimer lasers found to improve pilling performance of wool knitwear in laboratory trials. Wearer trials in progress.
Complete final report on wool blended, extruded filament yarns.	Final report submitted; talks with synthetic fibre spinner on the adoption of the IP in China planned.
Complete final report on the colour conductive fibre project by Deakin University.	Work completed. New technology developed and patented.
Complete a pilot scale evaluation of the process for protection of wool at high dyeing temperatures.	An effective method of limiting damage in the high temperature dyeing of wool developed. Discussion with dyestuff companies to be arranged.
Complete technical evaluation of optically whitened wool.	Work successfully completed and follow up studies launched to develop method to prevent accelerated photoyellowing.
Develop a feasible methodology to be able to prove, on pilot scale, new techniques for reducing loop distortion and spirality in knitwear.	Outcomes successful. Next phase has begun with appointment of a commercial partner, Zinser, Germany, to build and trial the necessary units for industrial proving.
Industrial trial on shrink proofing treatment with nano-particle solution completed at Donghua University.	Industrial trial with Ruyi Wool Mills produced fabrics with good shrink-resistance. Further trials have been planned to minimise fibre damage and yellowing that are side effects of the process.
Fifteen fancy yarns developed and trialed at Xi'an University of Engineering Science & Technology.	Fifteen fancy yarns developed and introduced to industry. Kunshan Shunfeng Mill reported selling 1Mkg of fancy yarns containing 40% wool in 2005. Jiaxing Huameng Mill reported selling 200,000 metres of fancy yarn fabrics containing 70% Australian wool in 2005. Huzhou Zhongxin Textiles and Shanghai Huafang Knittings have begun designing knitted garments using wool fancy yarns.
Report on progress of CAWIN students.	Annual enrolment of undergraduate students on wool program at five CAWIN universities increases from 50 in 2003 to 128 students in 2006. Annual enrolment of master students on wool program at five CAWIN universities increases from 18 in 2003 to 52 students in 2006.
Merino Fibre in Fashion Markets	
Targets for 2005/06	Performance against target
Production and sale of 700,000 metres of "Nouveau Classique" textured women's fabrics.	Project terminated because of lack of commercial interest in the products.
Commercialise the natural stretch/ easy care singles fabric for lightweight tailoring with Nanshan (China), Chiel (Korea) and Laina (China, women).	Technology successfully transferred to Nashan, China, Cheil (Korea) Nakaden and Nikke (Japan). Trials planned with Novalan, (Mexico) and Burlington (USA) in September 2006. Nanshan, Cheil, Nikke and Nakaden have sent product ranges to customers for assessment.
Commercialise Merino Super Soft knitwear with Kookai (Australia).	Successfully launched with retail sales outperformed expectations.
Introduce Merino Super Soft in fully fashioned knitwear to Marks & Spencer, Next, Smedley, Pringle and Jaeger and sell 36,000 units.	Project terminated.
Production and sale of 700,000 metres of wool and wool blend fabrics suitable for the "Winter to Spring" seasons in Europe and US.	Project terminated.
Produce a range of fabrics/garments and marketing tools to develop a market for Merino fibre in children's wear up to eight years old.	Marketing package demonstrating Merino fabrics for children apparel produced.
Introduce Merino Super Soft into intimate apparel, sleepwear and hosiery through Sara Lee, Bentwood, Martin Empress and John Smedley to sell 20,000 units by December 2005 and a further 80,000 units by June 2006.	Project terminated.

Merino as a Performance Fibre	
Targets for 2005/06	Performance against target
Production of commercial quantities of garments using Spunlace.	Fabric successfully produced but commercial partner has decided not to continue the development.
Commercialise at least one wool industrial filtration product.	Supply chain successfully brokered by AWI. Trials underway in Australia and USA markets.
Commercialise the heated wool bedding.	Project terminated as product does not meet target price.
Develop a wool rich fleece fabric for the USA through Texmaco.	The bonded wool fleece program with Texmaco has successfully developed a range of fabrics that are now being marketed and purchased in the USA.
Complete development of one medical product from wool with Smith and Nephew.	Successful trials to prove effectiveness of injury prevention garments completed, but Smith & Nephew did not progress.
Determine acceptability to rural fire brigade suppliers of new wool/cotton blend fire-proof clothing.	Some slippage with partner availability. Wearer trials with CFA, VIC. to begin in July 2006.
Develop technology for inclusion of wool in bullet-proof protective wear.	Prototype met required performance and negotiation with commercial partner is under way.
Develop wool blend ergonomic high performance active wear.	Product concept developed. Project on track.
Determine feasibility of using wool blend fabrics in automotive upholstery.	Major slippage in this project with yarn suppliers in USA and Australia. The project has been terminated.

Trade/Product Marketing	
Market Information	
Targets for 2005/06	Performance against target
Make the <i>Woolcheque</i> web-based wool pricing service available to woolgrowers nationally.	The <i>Woolcheque</i> website has been successfully made available to Australian woolgrowers.
Survey the R&D needs of the Chinese knitwear industry.	Survey conducted with the Hong Kong Productivity Council. Survey was of the needs of the Chinese knitwear industry in Southern China. This survey was completed in 2005 and a hard copy is available upon request.
Establish a brand support information portal for wool retailers.	The merinoinnovation.com website provides in depth insights into Australian Merino, providing marketing stories to retailers/designers etc as to the vast, value adding attributes of the fibre.
Provide stakeholders with access to the following services from The Woolmark Company: Woolmark Business Survey Report; 5 Year Australian wool industry forecasts; Global wool textile industry weekly news articles for the AWI website; Annual review and outlook for fine wool; Annual review for medium micron and broad wool; <i>Beyond the Bale</i> global market information – medium to long term trends.	Stakeholders have been provided with current up to date market information through those reports, on AWI website and <i>Beyond the Bale</i> .
Undertake a survey of key brands and retail leaders within the Australian apparel market, identifying potential B2B partners for wool innovation product development. This survey methodology will then be used in key international markets: USA, Europe.	An Australian market survey is currently being conducted with potential B2B partners for wool innovation product development and marketing opportunities. This involves meetings/phone interviews with most appropriate contacts to ascertain current knowledge/usage of Australian Merino; willingness to consider Australian Merino into their garment ranges; price/profit business requirements. The qualitative data collected will enable AWI to select the most appropriate B2B partners to match with AWI's brand identity. This will be complete by December 2006, with a view to utilise this model within other territories.
Publish a Chinese newsletter providing information to the Chinese textile industry on the Australian wool industry, consumer/retail sentiment, fashion trends, and circulate to 1,500 manufacturers in China.	This monthly newsletter is a joint project with CWTA. It updates Chinese manufacturers with latest developments in the Australian wool industry as well as the Chinese wool textile industry. It has increased AWI's profile within the Chinese wool textile manufacturers, from early stage processing to garment making.
Publish <i>Sheep's Back to Mill</i> 2004/05 edition.	The 2004/05 edition of <i>Sheep's Back to Mill</i> has been successfully published and made available to industry stakeholders both nationally and internationally.
Maintain the Australian Wool Production Forecasting Committee (WPFC).	All performance targets met, including development of computer flock model to assist forecasting, as well as lower cost, higher quality data survey to support the WPFC.
Develop a Stage 1 of an Australian sheep population and wool production model.	Completed and successfully trialled by the WPFC. Further enhancements are now being made to the model.

Market Development	
Targets for 2005/06	Performance against target
<i>China</i>	
Assist commercialisation partners in lowering the cost of yarn and fabric for further development of the Woolfleece product by establishing manufacturers in China and Indonesia (Texmaco).	On target. Woolfleece was launched in China with Haitian Group in March 2006.
Work with Younger, Heilan Group, Sunshine, Shangdong Ruyi, Nanshan and Romon to develop new menswear products based on: Machine washable suits; Super light fabric; Permanent crease SIROSET or equivalent technology (xyphos); Package dyeing.	Younger: Merino travelling suits, under development. Sunshine: stone washed merino, under development. Ruyi: Stone washed merino (wool denim), under development. Ruyi: menswear for Spring/Summer 2007/08, just started. Heilan: machine washable suit completed for product development. There is no project with Romon.
Develop Basolan treatment for Softwool project with Novetex International, in conjunction with South Ocean and Reward Ningbo.)	On target. Arcosoft and Arcofill yarn was developed by treating loose fibres in Reward and Novetex in China. Launch in woollen market for the coming season.
Commercialise through Heilan (China) large volume sales of machine washable suits.	Following a successful technology transfer process, Heilan conducted a pilot consumer trial of the machine washable suits in the period December 2005-June 2006, producing and selling approximately 3,900 suits in China. Heilan consider the trial successful, and have advised of orders for a further 35,000 units for the forthcoming Chinese Autumn/Winter season.
AWI Shanghai Office opening.	Completed.
Work with Nanshan, Laina, Wu shi shin, Shandong Ruyi, Aoyang to develop machine washable wool uniforms and corporate wear using: Lightweight fabric; Permanent crease; TEC machine washable trousers; Machine washable suits.	Aoyang: Functional fabrics for corporate wear, just started. Ruyi: see the above. There is no project with Wuxi Xiexin.
Develop R&D 'alliances' with Hong Kong Knitting Association, Hong Kong Polytechnic (nano-technology), and Hong Kong Technical and Training Center.	Completed. Alliances developed with all three organisations, plus the Clothing Institute and Technology Association (CITA) and the Hong Kong Compliance Centre.
Anti-pilling 'Spring Wool' developed with Xinao and Spring Bamboo.	This project is on track and will be ready for launch in January 2007.
Establish commercial projects with Youngor Group, Shanghai Matsuoka, and Jiangu Hongdou Industry to investigate development of womenswear using: Natural stretch wool fabrics; Package dyeing and woven piece dyeing; Wool/cotton blends; Super lightweight fabric.	Innovative Merino womenswear fabric project with Youngor for Spring/Summer 2007: product development almost completed. 42 colour-woven fabrics are completed and 8 piece-dyeing fabrics are waiting for shade selection from the customer (brand). Innovative Merino womenswear fabric project with Youngor for Autumn/Winter 2007/08: under development. No projects with Shanghai Matsuoka and Jiangsu Hongdon so far.
Establish training and mentorship programs for Innovation Managers from Novetex International, Esquel and Xinao. AWI to train innovation managers in wool based product development.	Novetex are the first to go through the training and mentorship program. Training for Esquel and Xinao is pending.
Work with Esquel, Smart, Shan-Shan and Nan Shan to develop quality wool shirts using lightweight fabric.	After investigation this initiative was terminated due to no interest from business as a result of the product being too costly to go to market.
Anti-moth (Nano-technology) project in place with Three Gun, Huafeng	On track, to be launched at SpinExpo 2006 (end of August 2006).
<i>Europe</i>	
Establish AWI account managers in Italy, Iberia, France, UK and Germany, using AWI marketing platforms and projects to stimulate development projects with retailers and brand companies.	In progress. AWI has opened an office in Treviso (Italy), with three staff. Establishment of other offices will reflect outcomes of the merger with Woolmark.
Over the next two years, target 20 retailers to initiate B2B relationships: eight in UK, two in Spain, three in Germany, three in France and four Italy.	Establishment of an AWI office in Europe provides the platform for direct business relationships with companies throughout Europe.
<i>USA</i>	
Continue commercialisation of Woolfleece and derivatives (bonding knitted wool structure to fleece fabrics and tri-layer structural blends using wool as the core layer) with US brands: Levis, LL Bean, Liz Claiborne, Brooks Brothers, Eddie Bauer, Columbia, Ralph Lauren, Echo Design.	New Balance has taken into their range the Ducksan wool fleece product for Fall 2006. Brooks Bros are sampling the Texmaco bonded wool fleece for their Fall 2007 range along with New Balance. A new micro fibre wool fleece fabric is under development upon request from New Balance with Taiwanese fleece manufacturer King Whale targeted for Fall 2007 release.
Quality assured washable/dryable knitwear available in five US retailers.	The TWC Total Easy Care program was terminated in January 2006 due to lack of retailer interest. LL Bean continues to sell product that was developed under this program. The machine washable 100% wool trouser developed with TAL (Thailand) has been adopted by another company and will be released in their Fall 2006 range. Ongoing work is currently underway aimed at lifting their current range wool content percentage from 2% to 10%.

Target US casual apparel markets by developing projects in the area of fine gauge (tee-shirt weight) knitted performance apparel with commercialisation partners in US (brands) and Asia (manufacturing).	Base Layer (tee-shirt weight) wool fabrics continue to sell extremely well in the USA. Australian manufacturer DPK and American manufacturer Minus 33 Degrees are both selling volume meterage into the outdoor retail and sports sectors with the assistance of AWI.
Commercialise the hydro-entanglement fabrics developed with TWC with partners interested in bonding this fabric with a fleece substrate to achieve warmth without weight.	Although this project was successful in development no manufacturing partner has been identified to produce this product.
Initiate technology transfer of bi-layer wool/cotton projects developed with CSIRO to manufacturing partners integrated with key brand partners in North America.	The bi-layer wool/cotton fabrics are being tested by the US military. Sampling is also being provided to a commercial company. This product will not be technology transferred unless a retail buyer is identified.
Japan/Korea	
Establish product development relationships with Aoyama, Aoki, Konaka, Haruyama and Isetan to create an environmentally friendly 'Cool Suit' with marketing support.	Ceramic cool suit developed and launched through 130 retail outlets of Aoyama. Recent progress sales are satisfactory. Continued development of the ceramic cool suits is being conducted with Nikke. The status is ongoing and the target retail launch is Spring/Summer 2007.
Modified (odourless) Siroset technology commercialised in Japan.	This project was terminated due to failure of the technology.
Establish a product development relationship with Nakaden, Japan's largest women's weaver selling into major domestic apparel brands, using machine washable, superlight, compact yarn fabrics.	It was discovered the cost of making the shirts was very high and therefore the initial project has been placed on hold. It has since been decided to use the technology to develop with Nikke four new fabrics for trousers.
Grow domestic demand for woollen apparel in men's and women's knitwear, working with Fast Retailing (Uniqlo), Ito Yokado, AEON, and Isetan using machine washable knitwear with marketing stories, eg Merino Extrafine.	AWI is now working with UNY to grow domestic demand for woollen apparel in men's and women's knitwear. 270,000 garments ordered for this season by UNY. AWI providing marketing support for Australian Merino promotion.
India	
Transfer TEC jackets and trouser technology to Madura Garment company.	Completed.
Transfer TEC technology and supply information to Indian woolen shawl makers.	Completed.
Technology transfer of TEC knitwear to OSWAL Woolen Mills.	Completed.
Establish an Australia/India industry-based working group to assist with product development in India.	Joint industry based business advisory group formed and a meeting was organised in Delhi.
Establish three projects in active wear and three projects in work wear and two projects in high profile corporate wear.	Did not proceed for operational reasons.
Complete scoping study for production and marketing of high quality wool/cotton blends in India.	Completed.
Emerging markets	
Identify opportunities to increase the use of wool in Russia, Turkey and Eastern European countries.	Not completed. The strategy was re defined and it was decided that the focus would remain on China/Hong Kong/Japan and India.
Trade Access	
Targets for 2005/06	Performance against target
Publish an analysis of the economic impact of an FTA with China.	Publication completed and disseminated publicly through the Wool Industry FTA Committee.
Publish the outcomes of a Wool Marketing and Risk Management study.	The Wool Marketing and Risk Management Scoping Study is available to the public via the AWI website. Hard copies are produced on request.
Publish the Review of Supply Chain business model for the Australian wool industry.	The Review of the Supply Chain business model for Australia is available to the public via the AWI website. Hard copies are produced on request.
Continue work with the NFF and Australian Government towards completion of the WTO Agreement on Agriculture.	Representation of the industry continues on this issue, however progress of multilateral agriculture trade negotiations has been slow.
Develop and publish a wool pipeline costing model.	This has been successfully completed and used to generate 2004-05 <i>Sheep's Back to Mill</i> statistics.
Analyse the benefits and costs of electronic wool bale ID.	This study has been successfully completed and accepted by key industry stakeholders. Based on the recommendations of this report, bale ID trials are now underway.
Continue work with the NFF and Australian Government to establish a Free Trade Agreement (FTA) with China.	Representation of the Australian wool industry in FTA negotiations with China continues both through the NFF and the Wool Industry FTA Committee.
Continue work with the Australian Government to reduce or eliminate tariffs on raw wool and tops in India, China and the EU.	AWI is pursuing the elimination of tariffs in China as a priority in its FTA negotiations considering liberalisation of these obstacles to trade as fundamental to any liberalising agreement with China. Tariff negotiations with India and the EU also continue with the support from government, yet with less short term opportunity for progress without a bilateral agreement in place (congruent to that currently under negotiation with China).

Wool Production	
Profitable Grazing for Wool Sheep	
Targets for 2005/06	Performance against target
Commercialise five new pasture legumes: Lusa – Persian Clover (<i>Trifolium resupinatum</i>), Jota (<i>Melilotus alba</i>), Moonbi and Wilpena (<i>Hedysarum</i>) and Mintaro (Sub clover).	Mintaro: commercially available. Moonbi and Wilpena: commercial partner is building up commercial quantities of seed for retail in 2007. Lusa: commercial partner has been identified; breeder increasing seed quantity to provide to commercial partner in 2007. Jota: potential commercial partner identified; breeder increasing seed quantity to provide to commercial partner in 2007.
The Lifetime Wool project will release 'best-bet' ewe nutrition guidelines for optimising progeny lifetime wool production.	Two prototype calculators developed to cost supplementary feeding of ewes to achieve condition score targets at joining and lambing. Best-bet ewe guidelines have been delayed but guidelines for western Victoria and southern WA due August 2006. Extension and training packages under development.
Ninety wool advisors in six states trained to deliver StockPlan™ to help woolgrowers prepare drought management plans.	11 NSW, 4 Queensland and 2 Victorian StockPlan facilitators trained. Still pursuing WA and SA advisor interest in StockPlan facilitator training workshops.
Evaluate the potential for more widespread use of "Pastures from Space" by wool producers in SE Australia.	Evaluation of technology throughout the year. Continued discussion with CSIRO and GSSA about potential project for validation in south eastern Australia.
Develop extension products on reduction of soil acidity for wool producers to be delivered by NSW Agriculture and through 'Grain & Graze'.	Eight fact sheets available on the NSW DPI website and linked to the AWI website. Each fact sheet has been downloaded between 46 and 65 times.
1,000 growers receive information on economic impacts of applying lime to acid soils through field days, farm visits and fact sheets.	There have been 450 downloads of the web-based fact sheets. 250 people attended field days or conferences at which the results have been presented. Project results have been reported in publications including <i>Beyond the Bale</i> .
National Annual Pasture Legume Improvement Program (NAPLIP) will release a 'Ute Guide' for producers in the northern zone containing agronomic and management information for use of new cultivars.	<i>Northern Australia Ute Guide</i> at printers; due for release by the end of July. <i>Southern Australia Ute Guide</i> previously published (jointly with the GRDC) and copies distributed.
Complete delivery of biocontrol agents (for Paterson's Curse, thistles, horehound and heliotrope) and information sheets for their effective use.	Delivery of biocontrol agents completed. A total of four insect species were released to control Paterson's Curse at a total of 2,939 sites across Australia. Six insects were released to control thistles at a total of 920 sites. One insect was released for horehound at 72 sites. One insect was also released for Blue Heliotrope at 84 sites. 1,709 farmers were involved in the program. Information sheets available from the AWI and CSIRO websites.
Continue delivery of TIMERITE for red-legged earth mite control.	TIMERITE available through the TIMERITE website and the AWI helpline. Advertising in rural media to promote Timerite during winter and spring. 7,150 TIMERITE dates have been delivered over the life of the project. 4,259 have been delivered through the TIMERITE website since July 2004, and 1,497 through the AWI helpline since July 2004.
Conduct field trials of acid tolerant and winter active phalaris lines.	Field trials in final stages. Commercial partner has confirmed their intention to commercialise both the acid-tolerant and winter active lines developed in the project.
Establish Pastures Australia with GRDC, MLA, DA and RIRDC to provide the future vehicle for plant breeding and pastures investment.	Pastures Australia established. Market research and industry consultation completed. Draft Year 1 investment plan considered at national workshop in June 2006. Terms of Reference for new projects to be released in August 2006.
Develop new perennial Lotus species for grazing systems.	21 accessions screened for tolerance to waterlogging. Sufficient variation exists to make improvements in waterlogging tolerance.
Grain & Graze program initiated with nine regional projects established and case studies of innovative practice in mixed farming systems conducted.	Nine regional projects established and operational with over 60 field trials and demonstrations addressing locally relevant pasture and cropping systems. 40 farmer case studies finalised.
Demonstrate the relationship between soil biological status and pasture productivity, and identify management options to apply this knowledge. Establish research sites and develop assays for use in analysis.	Assays have been developed for Pythium, Phytophthora, three strains of Rhizoctonia and two nematodes. Field trials to demonstrate the link between soil biological status and pasture productivity were undertaken, but the results were not conclusive. Another series of field trials will be undertaken in 2006/07 using a different methodology. Management options have not been identified yet because the DNA assays needed to be developed first. Field trials to test different management options are currently being set up.

Develop a strategy for investment in projects to improve profitability of pastoral zone wool production.	Pastoral zone strategy approved by the AWI Board after consultation with pastoral zone producers and advisors. Projects initiated on feed analysis and the management of forage shrub-based pastures in low rainfall environments. Projects on economic comparison of Merino and alternative meat breed sheep enterprises, retention of staff, and establishment recipes for low rainfall pasture species and shrubs to be contracted in August 2006.
Develop a network of commercially relevant pasture demonstration sites to showcase new technology, benchmark productivity and provide a focus for extension activities.	Expansion of the Evergraze approved by AWI Board. Project will aim to increase the profitability and NRM outcomes in the high rainfall zone through better management of native based pastures and integration with high productivity improved pasture components of the farm.
Implement projects to decrease the impact of priority weeds.	Project underway to deliver best practice management information for control of serrated tussock, Chilean Needle Grass, African Lovegrass, Patersons Curse, thistles and Silver Leaf Nightshade.
Identify opportunities to improve rabbit control.	Study to determine whether rabbits are developing genetic resistance to RHD commenced. Analysis of existing data sets to identify the effectiveness of RHD under different environmental and management conditions commenced. The study will provide information on management techniques to improve the effectiveness of RHD in killing rabbits.

Natural Resource Management	
Targets for 2005/06	Performance against target
Release of a range of new tools for improved management of stocking rate in the pastoral zone.	Extension package on techniques to regenerate Mitchell Grasslands damaged by drought released to woolgrowers in Queensland. Prototypes developed for four new decision support tools: Benchmark Index for assessing sustainable stocking rate; Critical Decisions on Stocking Rate; Land Condition Framework for mulga and Mitchell Grasslands; Remote monitoring of land condition and seasonal conditions.
Development of a suite of environmental monitoring tools for woolgrowers in high rainfall and sheep/wheat zones.	Environmental monitoring tool developed. Being road tested with wool growers as part of the EMS project and with Catchment Management Authorities through the LWW Advocates program.
Publication of Rivers Guides and assessment tools for woolgrowers in the high rainfall and sheep/wheat zones.	Rivers Guides, visual assessment and detailed technical assessment tools available in hard copy or downloadable from the LWW website.
Native Vegetation Management Insight publications released.	Publication available in hard copy or downloadable from LWW website.
Publication of findings from the Future Woolscapes project.	All documents ready for release on AWI/LWW websites. Australian Farm Journal series ready for release.
Publication of guidelines for integrating pasture based solutions to saline land into farming systems.	Draft manual of techniques to improve saltbush establishment developed. Components to be included in other SGSL products.
Report on the outcomes and evaluation activities within Land Water & Wool to increase our understanding of the key drivers and deterrents for adoption of NRM practices.	Evaluation activities currently underway in each sub program. Information will be provided in LWW Final Report, due March 2007.
Establish the procedures to monitor, report and promote the wool industry's positive impact on the environment and actions taken to improve the environment.	Market research to determine retail, brand and garment manufacturer demand for environmentally assured wool in Western Europe, USA and Japan complete. Six existing monitoring systems are currently being road tested and evaluated with woolgrower groups. Project underway to determine specific requirements of a monitoring system that will be suitable for meat, wool and grains. DVD produced for retailers to highlight the complementarity between wool production and good environmental management.
Implement projects to develop cost effective control measures for environmental weeds such as Lippia and Bathurst Burr.	Project to identify biological control agents for Lippia underway with multiple partners. Bathurst Burr ecology, management and impact review completed; options for new R&D being considered.

Animal Health and Welfare	
Targets for 2005/06	Performance against target
<i>A replacement for mulesing</i>	
Complete formulation of collagenase and finalise patterns of use and type of collagenase used.	Target changed. Collagenase was shelved due to cost and ease of use concerns and replaced with a better active. Formulation and pattern of use of the new active are close to finalisation.
Have at least two prototype applicators for use in the field.	One applicator is further advanced than prototype (pre-commercial); two others are in prototype but not ready for use in the field.
Establish feasibility or otherwise of phenol or QAC for breech treatment as alternatives to collagenase.	Two QAC actives were identified as superior to collagenase and one of these is now the sole focus of development as a commercial product having been evaluated in field trials.

Establish commercialisation strategy for intradermal treatments.	Confidentiality agreements were signed with over 20 companies and a dossier of data is almost finalised.
Complete screening trials to evaluate animal welfare implications of various breech treatments.	Screening trials on clips were conducted in the field in SA and on injectable treatments in pen trials at Werribee.
Evaluate use of analgesics in mulesing.	Two studies were performed at Armidale by CSIRO and two agents with potential for use in mulesing were identified. CSIRO has itself conducted a further study building on these first two.
Evaluate new approaches to non-surgical mulesing.	This target refers to the clips which are now at an advanced stage of development and under evaluation in field trials around the country. Many other concepts for non-surgical mulesing were also explored.
Develop and deliver a national accreditation program for mulesing operators.	The program has not been 'officially' launched but a private provider, building on work previously funded by AWI, has been delivering training and accreditation since early 2006. People accredited under this program will have 'official' accredited status. The National Mulesing Accreditation Program Management Committee has been established and is overseeing its implementation. Mulesing contractors must be accredited by the end of 2006.
Implement a national genetic evaluation program for bare breech sheep as alternatives to mulesing.	A breeding project was established at Mt Barker (WA) and Armidale (NSW); preliminary studies on 'bare-breech' sheep in SA have been completed and a guide to visual scoring of breech traits was road-tested and then published.
<i>Other animal health and welfare</i>	
Commercialise a new dog bait lure ("FeralMone") and develop aerial bait delivery system.	FeralMone was launched and over 8000 cans have been sold. The aerial bait delivery system was determined not to be feasible and was not pursued.
Complete three new AUSVETPLAN manuals (wool stores, processing plants, exporters).	Target not met. This was a lower priority than other targets and it was not pursued.
Monitor pesticide residues on the Australian woolclip by a survey of 1,000 samples per year.	The survey data covers fleece wools from the 2005/06 year. Compliance with EU Eco-label criteria is around 42%. Additional targeted testing was carried out on wool produced by members of quality groups or others taking quality control measures. Fleece wools from such groups are generally much more likely to meet Eco-label criteria (up to 88% depending on the group).
Transfer DNA test to distinguish gel-stable field virulent and field benign strains of footrot to two laboratories, develop and optimise rapid test format (PCR), analyse at least 350 samples.	The test was transferred to Orange (NSW) and Albany (WA) laboratories and by March, 403 samples had been analysed. The test has performed reliably and commercialisation is expected in NSW within 2006, ahead of schedule.
Develop successful lice detection dipstick test and determine route to market.	Technical progress has been good with a prototype in-shed ('dipstick') test performing very well but requiring more extensive validation. A potential commercial partner is evaluating a licence option.
22 demonstration farms complete the second full year of their integrated parasite management program, and each host at least one field day, with more than 700 producers expected to attend during the year. Publication of case studies and lessons learned.	There were 25 field days during 2005/06 with 788 attendees. In addition, six workshops were held with 174 people attending, six presentations to conferences, and 34 media releases.
Implement a program for proficiency evaluation of wool chemical residue testing laboratories.	The program has completed two rounds and a list of proficient laboratories is available.
Develop the best of two experimental tests for insect growth regulator (IGR) resistance in lice, completion of testing for cross-resistance in IGR-resistant strains of flies.	The project team has decided to proceed with both tests because they may complement each other but both are working at this stage.
Commercial footrot eradication service based on sequential specific vaccination: Commence vaccine production, complete pre-vaccination inspections and first vaccination on group A farms, pre-vaccination inspections on group B farms.	6,500 sheep in six flocks (three in SA, three in Tasmania) have been inspected as planned. Footrot scores were ≥ 2 in 25-77% of sheep which should allow a good assessment of the vaccine's efficacy.
Develop a new dog bait to replace 1080 by assessing canid response to PAPP (a toxicant) and impact on non-target species with data ready to submit to APVMA.	Slippage due to technical hurdles, but progress remains satisfactory and project outputs will be greater than originally targeted with a cat toxin being added. A dossier for registration of a fox product will be submitted to the APVMA in December 2006, for a dog product in December 2007 and for a cat product in June 2008. An antidote is also progressing well and is likely to be part of the package.
Validated PCR test, for diagnosis of capripox virus in place at AAHL, short list of serological tests under evaluation.	Primary diagnostic and PCR tests are in place and a serological test (ELISA) is close to final development.
Complete and analyse first year of field trials on louse population dynamics.	Data from Longreach (Qld) and Werribee (Vic) trial sites have been collected and analysed. Sheep in the Werribee flock may have had an undetected louse infestation which has led to a change in aim for that trial. Louse build-up at Longreach was extremely slow, but this probably reflects the real situation.

Blowfly genomics program: produce cDNA array and optimise method for making transgenic blowflies (tools towards identifying 'target' genes in blowflies). Development of new, better targeted fly control product: prepare expression vectors, purify expressed protein.	Genomics project: milestone for production of the cDNA array slipped but no impact is expected on the final timelines. Method for making transgenic blowflies (to ascertain function of genes of interest) has been optimised. Fly control product: expression vectors, ie bacteria genetically engineered to produce proteins of interest, are working well and the expressed proteins have been purified.
Complete feasibility study on use of insect-eating worms for control of lice and flies, initiate development phase if favourable.	Some slippage but feasibility largely complete. A development phase is unlikely as the worms have not been highly effective.
Complete feasibility study on use of fungi for control of lice and flies, initiate development phase if favourable.	Some slippage but feasibility largely complete. Certain strains of fungi show promise, particularly for control of lice. Commercial interest is being canvassed and a decision will be made in September on a development phase.
Anti-protozoal vaccine to increase wool production: Complete passive immunity experiments, identify and purify antigen fragments for large scale trials.	Target met, but results unsatisfactory and project terminated.
Molecular Genetics	
Targets for 2005/06	Performance against target
Complete evaluation of alternative to present DNA parentage technology, and complete the commercialisation strategy.	The diversity array technology is a DNA marker discovery platform that is currently used in plants (wheat, barley, etc) and was trialled in sheep in an attempt to develop a high throughput, low cost molecular marker delivery platform. Following considerable technical difficulty to get the technique to work in sheep, far fewer markers were discovered (hundreds) than planned (thousands). Given the cost (~\$50) and difficulty associated with the technique, it no longer appears a viable alternative to current DNA pedigree technology in sheep. Consequently, no further research is planned and IP (markers discovered) has been rolled into SheepGenomics. New technology involving SNP discovery is currently underway in SheepGenomics, and is likely to supersede current DNA pedigree systems by delivering tens of thousands of markers at potentially lower cost than current DNA pedigree services.
Complete second lambing in FMFS Mapping Flock, and generation of additional progeny in CSIRO Romney x Merino Flock.	Second lambing of FMFS flock complete with 3,200 progeny generated including progeny from two additional sires (bare crutch sire and extreme muscling sire). Birth data captured at lambing and wool traits at marking. Parasite, wool and skin phenotyping of first drop of Romney x Merino lambs complete. Full genome scan complete on these animals and details of QTL analysis for core parasite and wool traits presented. QTL for parasite resistance found on Chr3, 6 and 15 and for wool and skin traits on Chr2, 13 and 15. These require further fine mapping which is the subject of another proposal. The second drop of lambs to complement these lambs have been born, phenotyping commenced, lambs weaned and DNA collected.
Complete BAC-end sequencing alignment of virtual Sheep Map against Bovine Map, and publication via Genbank.	BAC-ends sequenced, and data published in GenBank. Alignment with Bovine scaffold complete. Available via Bioinformatics portal for SheepGenomics researchers.
Have implemented the Sheep Genomics Program (SGP) bioinformatics web-resource, including linkage to the Sheep Genome Map and other content resources, such that the resource is widely available for researchers.	SheepGenomics website up and running (www.sheepgenomics.com). Bioinformatics web portal built with links to all relevant SheepGenomics research resources including Sheep Genome Map and other relevant maps, BAC end sequences and a number of other tools and resources.
Complete global meta-analysis of host-resistance to internal parasite gene discovery landscape (across flocks), identifying best-bet gene hotspots for fine mapping and eventual marker development.	Material Transfer Agreement agreed and a number of participants have signed up to the agreement. Expect completion of chromosomal alignment by December 2006. At least eight international groups have expressed interest in participation, including ILRI (Kenya), Louisiana State Uni (USA), Roslin Institute (UK), INRA (France), AgResearch (NZ).
Complete development of prospective gene markers (3 regions) using the Golden Ram flock resource, enabling large scale screening of breeder flocks to commence.	Golden Ram project rolled into SheepGenomics and GR rams used in FMFS Mapping Flock. Project due for completion in September 2006 by which time three chromosomal regions will be fine mapped. Progression of these markers to industry validation will be guided by the global meta-analysis project.
Complete fine mapping of Callipyge (sheep loin) and Carwell (sheep eye-muscle) hotspots on Chromosome 18, and initial validation using FMFS Fine Mapping resources.	Haplotype marker block developed. Validation using industry flocks and FMFS underway. A competing product (LoinMax™) has entered the Australian market (November 2005) and discussions are ongoing to cross validate SheepGenomics markers and LoinMax™ to determine equivalence.

Establish the basis for therapeutic intervention enabling manipulation of the lifetime wool production of sheep, based on in-utero regulation of foetal genes: have completed assessment of lambs born in August 2004 in relation to key wool and skin attributes, and have progressed assessment of second joining lambs.	Hogget shearing for Cortisol treatment lambs completed, as is lamb tipping for thyroid hormone group. Skin biopsy processing for both groups is complete. Most significant outcome is 10% increase in staple length when one of the target hormones is suppressed with no change in other traits. Need to develop experiment to determine mechanism acting here. Ewe treatments completed for Cysteine pathway group, and the resulting lambs will be born July 2006.
Applied Genetics and Wool Quality	
Targets for 2005/06	Performance against target
<i>Genetics</i>	
Launch Sheep Genetics Australia (SGA) as a commercial service involving meat sheep, Merinos and other breeds.	Service launched in October 2005 and commenced operations in November 2005. Nine awareness forums were conducted across Australia attracting over 700 participants. Over 40 new MerinoSelect clients have joined since the launch. Over 750 ram breeders have performance and pedigree data on over two million animals in the SGA system.
Forty ASBVs and genetic trends to be available to industry from SGA.	Over fifty ASBVs and genetic trends have been available since November 2005. Analysis is run every fortnight and ASBVs updated accordingly.
Updated Merino Superior Sires report generated via SGA.	Merino Superior Sires 11 published in February 2006, generated using SGA analysis procedures. 3,471 copies distributed. Report also available at mss.csiro.au
Complete the National Selection Demonstration Flock trial, issue comprehensive final report and industry communication package developed.	Selection Demonstration Flock trial concluded in June 2006. Extensive economic analyses of results conducted. Communication package will be delivered commencing September 2006.
10 CTSE evaluations established around Australia, and assessment of extreme sires and additional traits commenced. Major web page refurbishment, quarterly web updates completed, and Merino Superior Sires 11 published in hard copy.	Eight active sites in CTSE with interest to start two new sites in SA and NSW. Second year of dry seasonal conditions plus two sites joining every second year has lead to five sites joining in 2006. Three extreme sires selected for worm resistance entered and additional traits collected at all sites.
Complete final report on national woolgrower research into issues affecting breeding strategy/technique decisions.	Project delayed by three months to streamline material mailed to AWI shareholders. National survey now collated with 40% response rate. Final report due in September 2006.
Updated Merino Bloodline Performance Package published and project initiated to extend the range of traits evaluated at sites.	Merino Bloodline Performance Package published in September 2005 with 2,000+ copies distributed and website developed (www.merinobloodlines.com.au). Additional trait funding used by 12 bloodline evaluations collecting additional traits such as staple strength, faecal egg counts, wool processing ability and meat traits.
Complete planning of the national sheep genetic education program that includes extension of SGA activities and other genetic technologies including bloodline evaluations and Merino Superior Sires.	Strategic and operational planning process ongoing, assisted by external advisors. Based on the outcomes and recommendations of this review, a strategy is being developed between MLA, AWI and SGA Manager. Expect completion in September 2006.
Establish ASBVs for structural and visually assessed traits.	Parameter estimates to develop ASBVs currently in refinement. Results show structurally and visually assessed traits are heritable and their relationship to measured traits will shortly be published. Workshop to consider inclusion into SGA is the next step.
<i>Wool quality</i>	
Forty per cent eligible target market adoption of the DMF vendor declaration: Random sampling of national clip enhanced. Industrial trialling of automated DMF testing system completed.	The DMF vendor declaration adoption rate is presently at 32-35%. Enhanced random sampling of the clip was successfully completed, and a follow-up contract is in place. Industrial trialling of the DMF test instrument has now moved to a phase involving 10 major topmakers and spinners globally.
Complete final report on comparison of OFDA4000, Almeter and Laserscan instruments.	Project completed, and final report received. Papers delivered to FAWO and IWTO, which subsequently approved the Draft Test Method for OFDA4000. Excellent outcome.
Complete field report on prevalence of DMF in mills.	Project completed, and final results presented at IWTO in November 2005 and April 2006. Follow-up communication with individual mills is underway, in conjunction with Dark and Medullated Fibre Instrumentation Commercialisation.
Complete the delivery of national OFFM workshops for growers, brokers and advisors.	The second year of delivery of OFFM workshops were suspended in July 2005 until more favourable wool market conditions emerge.
Achieve 100% participation in OFFM QA Program and report on changes in operator performance, and changes in user awareness and recognition.	The OFFM QA project has been successful in attracting 90% participation. A survey of operators' revealed support for the program with the majority greatly improving their knowledge of Quality Assurance. The majority believed that the program has improved their business by increasing industry confidence in the ability of operators to deliver quality of services.

Determine the acceptable level of DMF in greasy wool and tops as detected by new testing procedure.	Project successfully completed. Threshold levels defined, including a new definition of 'problem' medullated fibres, and reported to IWTO. Processing trials near completion, five months ahead of schedule.
Complete final report on development of a new device for on-farm fleece yield measurement.	Feasibility project completed. Results were not sufficiently precise to warrant further commercialisation effort, and the details were published at IWTO Cairo in April 2006.
Initiate development of an alternative, lower cost test measurement for staple strength, point of break (POB) and hauteur suitable for on farm and pipeline use.	Slippage. Awaiting proposal from developer, following initial contacts.
Wool Harvesting	
Targets for 2005/06	
Complete round two of regional coaching in shed for shearers and wool handlers.	Performance against target Regional coaching was successfully completed at the end of June 2006 with 460 days delivered.
Complete the development and distribution of shearer/wool handler learning resources to all training organisations.	Improver/Professional shearer and Wool Handler DVD training resources were successfully completed and delivered.
Complete Peak Hill UPSP field trials, followed by subsequent commercial release of Stage 1 UPSP.	Trials successfully completed and platform commercially released. However, a lower cost, smaller and faster version of this platform was required for commercial release and has subsequently been completed and is now being trialled.
Complete Catford UPSP field trials and resolve further development path for commercialisation.	This project has been terminated as performance targets were not met.
Complete SLAMP UPSP commercial prototype and field trials.	SLAMP field trials still underway owing to additional engineering required.
Kondinin Group publishes productivity/OH&S design guidelines and a comparative analysis of crutching trailers.	Completed and published.
Complete Western UPSP commercial prototype and field trials.	Modifications to platform delayed start of field trials. These are now underway.
At least two anti-locking handpiece motors to be commercially available, preferably with optional deadman switch technology.	Two anti locking motors are now commercially available.
Complete market research for a stage 2 modular UPSP.	Initial market research completed.
Publish via the AWI website and other media a comprehensive set of guidelines for OH&S, productivity and new technology options for shearing sheds.	Guidelines available at wool.com.au/shearingshedguidelines and on CD.
Involve all shearer and wool handler trainers and coaches in national consistency workshops to improve the quality and consistency of shearer and wool handler training.	Five national consistency workshops were delivered to lift the standard of training delivery for shearer and wool handler training.
Commence a collaborative project with at least one shearing machinery supplier to deliver a handpiece cutter grinding alternative that improves productivity, automates grinding process and improves OH&S.	No commercial industry partner has taken up this offer.
Review all previous robotics and severance research and recommend if further research and development is justified.	Completed review and commenced a project to examine the potential of a hybrid ultrasonic handpiece. Robotic research has been rejected.
Complete polymer coating assessment and decide whether to proceed to next stage of development and application.	Assessment project completed. It has been decided not to proceed with polymer coating as originally envisaged.
Review all previous chemical harvesting research and recommend if further research should be funded.	Completed review of biological and chemical harvesting and commenced a biological harvesting research program aimed at reducing the cost of harvesting.
Education and Adoption	
Targets for 2005/06	
Manage AWI's involvement in the review of the joint RDC Top 100 Adoption Targets.	This has not been required as the RDC Chairs have yet to initiate the review.
Report on progress against producer participation targets for each of the region-based grower extension programs: Bestprac (Pastoral zone); Wool4Wealth (NSW); BESTWOOL 2010 (VIC); Look @ Wool (SA); 8x5 Wool Profit Program (Tas); The Sheep's Back (WA); Leading Sheep (Qld); Triple P (NSW and Vic); Cicerone Project (Northern Tablelands of NSW); Network for High Performing Producers.	The national network of state woolgrower groups has progressively been revamped. The new approach places a greater emphasis on the projects acting as a conduit for AWI projects as well as participants contributing part payment for the services they receive. AWI has successfully trialled a process to engage woolgrowers who have not otherwise been involved in group activity. The process is called 'Facilitated Recruitment' and will be added to the suite of techniques that groups will use to engage woolgrowers. At the end of 2005/06, there were 2,227 woolgrowers involved in AWI funded groups across Australia.
Provide leadership training opportunities to Australian woolgrowers through: Nuffield Scholarships; The Australian Rural Leadership Program; DAFF Science and Innovation Awards; Corporate Governance for Rural Women; Leadership Opportunities for Rural Women.	The wool industry has been represented in each of these programs during 2005-06. In 2005/06, 16 woolgrowers participated in these activities.

Provide information to woolgrowers on managing OH&S risks in agriculture.	AWI is a contributor to the RIRDC OH&S Joint Venture Program which has disseminated information on a range of OH&S issues through various communication channels. AWI corporate publications have also used OH&S information in <i>Beyond the Bale</i> . OH&S issues have also been addressed through regional grower extension programs.
Deliver resource kit workshops to 200 school teachers and careers advisors to increase their understanding of the wool industry.	Commencement of workshops was postponed due to delays in completing resource materials and contractor staffing issues. During 2005/06 131 school teachers have been involved in professional development activities.
Develop the following undergraduate multi-media e-learning units for the delivery of wool technical education in universities and vocational providers: Early Stage Wool Processing; Sheep Genetics; Sheep Meat Science & Biology; Late Stage Processing; Wool Metrology; Wool Biology.	The development of these units has been completed. Nine Australian universities currently offer some or all of these units, and negotiations continue with other local and international institutions.
Assist over 200 new entrants into the wool industry through scholarships.	During 2005/06, 15 new were awarded which brings the total of 161 scholarships awarded since the beginning of the program.
Contribute to the development and maintenance of nationally significant information resources and systems of value to the wool industry including: Chemcert Australia Training Manual; International Journal of Sheep and Wool Science; Best Management Practice Framework for Wool Production; Sheep's Back to Mill Pipeline Training; Global Wool Science Capacity Study.	During 2005/06, the Chemcert Australia Training Manual was updated, assistance was provided to establish the online International Journal of Sheep and Wool Science, a draft of the Best Management Practice Framework for Wool Production was produced, the Global Wool Science Capacity Study was completed, and Sheep's Back to Mill Pipeline Training was not delivered due to lack of demand from industry.
Partner with the Sheep and Beef CRCs to implement a web based Livestock e-library that provides a single access point to technical information on sheep and wool production.	The Livestock e-Library (www.livestocklibrary.com.au) became operational during 2005/06. Additional content and new software functionality are to be added during 2006/07.

Corporate Affairs

Communications – Corporate

Targets for 2005/06

Targets for 2005/06	Performance against target
Produce and deliver an annual "Product and Services Catalogue" for shareholders.	The catalogue was produced and distributed to shareholders in August 2006. Over 500 shareholders made requests for publications from the catalogue up until end of June 2006
Produce and distribute six issues of <i>Beyond the Bale</i> each year.	The publication was revamped into a new format to give it a sharper focus. Five issues were produced and distributed.
Produce and distribute the AWI annual report.	The annual report was distributed on time. The report received a Bronze Award at the Australasian Reporting Awards in June 2006.
Undertake a woolgrower survey to identify issues, trends and attitudes of the Australian wool industry.	Survey undertaken and results provided to AWI.
At least 150 shareholders attend AGM and associated forum.	Over 150 people attended the 2005 AWI AGM and associated forum in Adelaide, SA. This included a product showcase displaying AWI's achievements over the past 12 months.
An average of at least 150 shareholders attends each of three AWI woolgrower information forums held in key woolgrower centres throughout Australia during the year.	Four forums were held in 2005/06, including Falkiner Memorial Field Station Field Day (NSW), Goulburn (NSW) Hamilton (VIC) and Broken Hill (NSW). Approximately 460 people attended and on average the forums were given a rating of 8/10 and some excellent feedback was received about AWI's products, initiatives and current direction.
Provide displays, speakers and information to shareholders and stakeholders through at least three established major wool industry events during the year.	Product showcases and information were on display at Woolorama (WA), Wool Expo (NSW), Sheepvention (VIC) and National Sheep and Wool Show (VIC) during 2005/06.
Improve the usability of the AWI website as measured by before and after surveys.	The addition of the entry page wool.com.au has improved user experience as audiences are segmented and links and promotions are clear. All content is targeted for search engine optimisation, regularly updated, relevant and timely.
Increase by five per cent the proportion of woolgrowers who have visited the AWI website, as measured by independent AWI market research.	Visitor numbers to the AWI website increased by 45% during the year to an average of over 1,500 visits per day. Targeting woolgrowers has been a priority including production of online guide, rural advertising, promotion of websites at forums and events.
Annually update <i>Wool Industry</i> fact sheet.	Updated in September 2005 and January 2006.
Undertake an annual review with the AWI business units of the portfolio of AWI publications to ensure information is provided in an appropriate format and style.	An ongoing rolling review took place during the year to ensure information in AWI publications was provided in an appropriate format and style.

Support the World Merino Conference in July 2006.	As the naming rights sponsor of the AWI 7th World Merino Conference, AWI provided both monetary and in-kind support for the event. AWI had four Innovation Platforms at the Merino Innovation Day, supported the fashion parade with designer garments and provided three speakers and a corporate display at the main part of the conference. Over 1,000 people attended the Innovation Day and over 500 people registered for the conference.
Communications – Fashion/Retail/Trade	
Targets for 2005/06	Performance against target
Hold an annual Fashion Innovation Showcase with AWI business partners to profile current and future innovation.	A selection of Australian designers using Australian Merino wool was on display at the AGM in November including Josh Goot, Jayson Brunson, Kookai, Akira and woolliwoolli.
Deliver an Annual Fashion Innovation Report to AWI stakeholders.	Held over to 2006/07.
Highlight AWI product development marketing platforms at four international fashion events and one national trade fair.	AWI attended Ispo trade fair in January 2006. As a result, B2B contact was made with key retailers and large amounts of editorial was achieved locally and internationally.
Develop a specific communications plan to increase the textile industry's awareness of AWI's apparel product innovations.	Photographic exhibition created to showcase Merino wool in its most innovative form: one Merino wool tank, 27 international photographers, images digitally printed onto Australian Merino wool.
Provide timely and relevant information on AWI textile innovations to key global fashion and apparel textiles media.	Significantly increased AWI's inclusion in local trade publication, Ragtrader. Inclusion in International trade magazines from the Ispo trade event.
Support The Australian Wool Fashion Awards (TAWFA).	TAWFA awards held in Armidale in March 2006. Students designed outfits from Australian Merino wool fabric supplied by AWI.
Identify and work with three international fashion designers to act as Australian Merino Wool Ambassadors.	Key international designers who partnered with AWI were Josh Goot, Jayson Brunson and Akira Isogawa. Each showcased their Merino wool collections at events including Mercedes Australian Fashion week, New York fashion week and Paris Fashion week.
Working with key Australian and international designers, retailers and manufacturers, undertake one national and one international fashion designers roundtable on future opportunities for Merino wool.	Not undertaken.
Develop Chinese apparel communications plan.	Underway in 2006/07.
Industry Affairs – Producers/Industry Stakeholders/Government	
Targets for 2005/06	Performance against target
Support the Wool Industry Task Force's activities to respond to threats posed by extreme animal rights groups by providing support, advice and information to retailers, public relations activities, and trade advertisements to reinforce the industry's position and where appropriate, take legal action to defend the industry.	During 2005/06, AWI contributed to the Taskforce's global strategy to ensure a positive outcome for the Australian Wool and Sheep industry during the campaign against industry by animal activists.
Undertake a bi-annual wool industry seminar that targets young scientists and woolgrowers regarding identification of research opportunities for AWI.	The scope of this project was broadened to also include manufacturers, retailers and designers in the Next Generations Partnership program.
Complete a yearly survey of 20 woolgrowers from woolgrower industry organisations.	This survey was conducted with key industry stakeholder groups in July 2005 as a means of benchmarking AWI's performance.
Hold five AWI <i>Industry Information Exchange</i> sessions per year with WoolProducers and woolgrowers associations, the key stakeholders and breeder groups.	Seven <i>Industry Information Exchange</i> sessions were held during the year to provide an AWI RDI update and for industry groups to provide feedback to AWI.
Australian MPs in major wool growing electorates are briefed annually by AWI on RDI activities, industry issues and economic value of the Australian wool industry.	This project was covered with WoolMatters.
Twelve copies of <i>WoolMatters</i> – a monthly update on current wool industry matters and AWI RDI activities is published and sent to Australian MPs in wool growing electorates.	A monthly electronic newsletter, <i>WoolMatters</i> , was distributed to MPs in wool growing electorates to provide the latest information on AWI RDI activities and progress.
The Australian Ministers for Agriculture and Trade receive an annual company briefing on AWI RDI activities from AWI.	As per the requirements of the SFA, the Minister for Agriculture, Fisheries and Forestry, and the Parliamentary Secretary were provided 6-monthly AWI RDI updates. Briefings to the Minister for Trade were delivered by the committee responsible for working on behalf of the Australian Merino industry on the China Free Trade Agreement (FTA).
Industry stakeholders and AWI participate in an annual wool industry crisis rehearsal and review workshop.	This crisis rehearsal workshop was replaced with actual actions through the Australian Wool and Sheep Industry Taskforce dealing with the campaign against the industry by animal activists.

<p>Fifty woolgrowers through ten advisory panels will have input into AWI research.</p>	<p>During 2005/06 AWI ran 18 advisory panels with woolgrower representatives providing input into AWI research and development.</p>
<p>All advisory panel database listees receive a 6-monthly update from AWI.</p>	<p>Specific target revised as advisory panel members receive regular information from AWI in the form of publications, online resources and other stakeholder communications.</p>
<p>The Australian wool industry is provided with executive planning support from AWI to develop a vision and goals for the industry.</p>	<p>Discussions were held with the peak industry body, WoolProducers, to determine next steps in developing this project.</p>
<p>Undertake annual Industry Leaders International Wool Research Study Program.</p>	<p>Project to be implemented in 2006/07.</p>
<p>Up to ten next generation, 25-40 year of age woolgrowers, participate in two AWI Information Exchange Sessions and opportunities to gain international experience of the wool industry.</p>	<p>The Next Generation Partnerships program was initiated in a two-day workshop held in October 2005 in Sydney. The inaugural group represented the wool supply chain – with woolgrowers, scientists, processors, manufacturers, retailers and designers in attendance.</p>

Appendix B – Project list 2005/06

Project Title	Provider	Full Contract Value (\$000's)	Paid in 2005/2006 (\$000's)	Start date	Finish date
Textiles/Product Development					
Fundamental Wool Science					
Chromophores in Brighter Whiter Wool	Canesis Pty Ltd	949	164	Dec 05	Dec 08
Soft Wool	DWI	530	169	Jul 05	Jul 08
Fundamental Wool Science Collaboration: Target Topic C Brighter White Wool – Phase 2	CSIRO Textile & Fibre	1,550	431	Jul 05	Jul 08
AWI/DWI Awards	DWI, Canesis Pty Ltd	416	40	Sep 02	Dec 07
Causes and Consequences of Yarn Instability	CSIRO Textile & Fibre	1,169	383	Aug 04	Aug 07
Fundamental Wool Science Collaboration: Target Topic A – Fibre Surface and Cuticle Studies – WRONZ	Canesis Pty Ltd, The University of Adelaide	1,323	417	May 03	Aug 06
Fundamental Wool Science Collaboration: Target Topic B: Fibre Ultrastructure and Cellular Morphology – WRONZ	Canesis Pty Ltd, The University of Adelaide	1,143	355	Apr 03	Aug 06
PhD Scholarship – Finishing Very Light Weight Wool Fabric – Completed	Canesis Pty Ltd	182	5	Sep 02	Mar 06
Fundamental Wool Science Collaboration: Target Topic A – Fibre Surface and Cuticle Studies – DWI	DWI, The University of Adelaide	830	190	Dec 02	Feb 06
Wool Surface Modification By Excimer Laser	University of Swinburne Industrial Research Institute Swinburn (IRIS)	177	177	Jun 05	Jan 06
Fundamental Wool Science Collaboration: Target Topic C: Brighter White Wool – DWI	DWI, The University of Adelaide	470	38	Dec 02	Jan 06
Fundamental Wool Science Collaboration: Target Topic A – Characterization and Modification of the Proteolipid Surface of Wool – CSIRO	CSIRO Textile & Fibre, The University of Adelaide	1,244	286	Mar 03	Jan 06
Fundamental Wool Science Collaboration: Target Topic A: Fibre Surface and Cuticle Studies – CSIRO	CSIRO Textile & Fibre, The University of Adelaide	294	53	Dec 02	Dec 05
Fundamental Wool Science Collaboration: Target Topic B: Element Mapping of Wool Fibre Morphological Components – DWI	DWI, The University of Adelaide	514	75	Dec 02	Dec 05
Fundamental Wool Science Collaboration Topic C –Photoyellowing – Canesis – Completed	Canesis Pty Ltd, The University of Adelaide	463	40	Apr 03	Nov 05
Post Doctoral Research Scholarship On Smart Textiles – Completed	Canesis Pty Ltd	304	30	Dec 02	Mar 05
The Processing of Merino Fibre					
China Australia Wool Innovation Network (CAWIN)	Deakin University	4,985	1,203	Aug 03	Jan 09
Pilling & Softness of Wool Fabrics	Deakin University	521	160	Jul 05	Jul 08
Wet sel cleaning through extreme waterproofing	University of NSW	857	*	Mar 05	Mar 08
The Australian Wool Fashion Awards (TAWFA)	Australian Wool Fashion Awards Ltd	335	100	Dec 04	Dec 07
Wool Splittable – Micro-Fibre Blends	CSIRO Textile & Fibre	1,298	300	Jul 05	Aug 07

Project Title	Provider	Full Contract Value (\$000's)	Paid in 2005/2006 (\$000's)	Start date	Finish date
Merinofleece Market Extension – Lapsed	TWC	273	*	Aug 04	Jun 07
A total colour solution for wool and wool blend	Canesis Pty Ltd	1,123	497	Jun 05	Jun 07
AOX – Free SR Treatment	BENTEC	151	36	Dec 04	Mar 07
Scale-up, Technology Transfer and Commercialisation of a new ZAOX process for wool	Parachem Ltd	473	125	Jan 06	Mar 07
Bright fluorescent dyes and optical brighteners for wool and wool blends based on coumarin	University of Leeds, CSIRO Textile & Fibre	302	*	Feb 06	Feb 07
Wool Coatings	CSIRO Textile & Fibre	950	532	May 05	Dec 06
Chlorine Free Shrink Resistance	CSIRO Textile & Fibre	1,230	*	Jun 05	Dec 06
New Wool Micro-Fibre Blends	CSIRO Textile & Fibre	538	359	Apr 05	Oct 06
Multi-Purpose Finishing of Wool with Selected Oxidants	Peradox Ltd	124	93	Jan 05	Sep 06
Enhancing fabric skin comfort via finishing	CSIRO Textile & Fibre	226	170	Aug 05	Sep 06
Super White Wool/Polyester Blend Fabrics	CSIRO Textile & Fibre	145	108	Apr 05	Aug 06
Lightweight Fluid Fabrics	CSIRO Textile & Fibre	454	364	May 05	Jun 06
Development of a scouring technology package	CSIRO Textile & Fibre	728	139	Nov 03	Jun 06
Torque Free Singles Worsted Yarns	Hong Kong Polytechnic University	425	387	Mar 05	Jun 06
Application of Colorstrip Technology to Australian wool	CSIRO Textile & Fibre	524	390	May 05	May 06
Top Dyeing into developing countries	CSIRO Textile & Fibre	137	137	Apr 05	May 06
Wool Product Enhancement by Fibre Fibrillation	University of Leeds	803	201	Dec 03	Apr 06
Spunlace Wool Nonwovens	CSIRO Textile & Fibre	599	218	May 04	Mar 06
Quick Dry, Stain Resist Wool Garments	CSIRO Textile & Fibre	243	243	Oct 05	Mar 06
Machine Washable/Tumble Dry Suits – Deferred	Berkeley Apparel Pty Ltd	200	*	Mar 04	Mar 06
Improvements to the Sirosett Process for Crease Stabilisation	TWC	537	*	Oct 02	Feb 06
Reproducible wool dyeing	CSIRO Textile & Fibre	290	146	Oct 04	Jan 06
Compact Wool Card	CSIRO Textile & Fibre	856	203	Mar 04	Jan 06
Permanent Bright Shades for Wool – Development Phase – completed	CSIRO Textile & Fibre	1,215	119	Jul 03	Jan 06
Protein Production	CSIRO Textile & Fibre	257	257	Jan 05	Jan 06
Reduced imperfections in fine worsted yarns	Indo Worth Thailand Ltd	157	*	Jun 05	Dec 05
Total Easy Care Jacketings	TWC	546	*	Apr 02	Nov 05
High temperature, deep shade, reactive dyeing of wool	University of Leeds	170	43	Sep 03	Nov 05
Woollen industry review – A strategic review of the fine woollen processing industry Technological challenges and R&D needs	Canesis Pty Ltd	196	121	Jan 05	Oct 05
High Lightfastness Dyeings for Wool Fabrics	Canesis Pty Ltd	640	32	Sep 02	Oct 05
Coloured Conductive Textiles	Deakin University	1,354	205	Jul 02	Aug 05
Continuous Wool Blend Filament	Deakin University	1,975	272	Jul 02	Aug 05
Globalisation of TopMaker and TopSpin	Australian Software for Topmaking	180	*	Aug 03	Aug 05
Merino Fibre in Fashion Markets					
Wool product development and marketing services	Oversees Textile Consulting Ltd	2,719	156	Feb 06	Feb 09
Collaborative Product Development with Benetton	Benetton Group Spa	1,600	*	May 06	May 08
NuYarn Product Developments	Canesis Pty Ltd	876	97	Jan 06	Jul 07
Wool on the web – Phase II	Apical International Pty Ltd, Christoe Consulting, Right Now Technologies	211	87	Nov 05	Jun 07
Trans Seasonal Cool Touch Merino	CSIRO Textile & Fibre	446	88	Mar 06	Jun 07
Innovative pure merino and merino blend woven fabrics for ladies apparel and menswear markets	Canesis Pty Ltd	654	357	Apr 05	Jun 07

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"Merino-Ice" Soft-Touch Merino enzyme treatment platform	Canesis Pty Ltd	495	30	Mar 06	Apr 07
Softer Easycare	Canesis Pty Ltd	498	27	Mar 06	Apr 07
Fine ends development with Zegna Baruffa	Zegna Baruffa – Lane Borgosesia S.p.a.(ZB), Department of Agriculture of Western Australia (DAWA)	219	*	Apr 06	Feb 07
Supply Chain & Sourcing Opportunities in the USA	CMK Consulting LLC	115	*	Jun 06	Dec 06
Low Pill Knitwear	TWC	546	365	Oct 04	Nov 06
AWI International Student Exchange Program	International Wool Textile Organisation	135	30	Oct 04	Sep 06
Natural Machine Washable Wool Fabrics	Canesis Pty Ltd	181	111	Jun 05	Aug 06
wool on the web: The AWI Wool Apparel and Textile Processing Internet Portal	Apical International Pty Ltd, Australian Wool Testing Authority Ltd, Christoe Consulting, CSIRO Textile & Fibre, Dr Peter Lamb, Fresh Web Solutions Pty Ltd, Judith Turk Consulting, Right Now Technologies, Teckel Consulting Pty Ltd, TWC Holdings Pty Ltd	439	30	Jul 04	Jul 06
Nano – Tex USA – "Coolest Comfort Feasibility Study"	Nano-Tex Inc	250	150	Feb 06	Jun 06
Technical Marketing Packages for Textile Marketing Platforms	CSIRO Textile & Fibre	377	304	Apr 05	Jun 06
Merino children The Next GENERation	DPK Australia Pty Ltd	266	266	Jun 05	Jun 06
UK innovation Clusters for supersoft hoisery, Lingerie and nightwear	TWC	534	449	May 05	May 06
Corporate Wear – Business to Business	TWC	665	241	Apr 05	May 06
Merino Super Soft for Fully Fashioned Knitwear in Europe	TWC	873	538	May 05	May 06
Trans-seasonal Textile Blends	TWC	1,047	506	Aug 04	May 06
Consulting on AWI projects and programs in Textile Portfolio – Eric Finnie	Frederick Thomas Finnie	162	73	Jun 05	May 06
Washable Australian Merino Wool Knitwear in the USA	TWC	949	77	May 04	Feb 06
Total Easy Care, Superfine pure wool fabrics for the Chinese domestic market	Longkou Donghai Trade Co Ltd, Cindy Cui, Canesis Pty Ltd, Beijing Beiguo Garments Co	164	91	Nov 04	Jan 06
Australian Wool Textiles Training Centre	Apical International Pty Ltd, Darren Charles Cornish Trading Dish Creations, Fresh Web Solutions Pty Ltd, Judith Turk Consulting, South West Institute of TAFE	144	52	Oct 05	Dec 05
Nouveau Classique	TWC	1,505	841	Nov 04	Nov 05
Information Management – General – Sampling & Testing	The Devotion Group PTY LTD, ManuTech (VIC) P/L, Macquarie Textiles Group Ltd, CSIRO Textile & Fibre, Capronex Services Pty Ltd, Canesis Pty Ltd, Apical International Pty Ltd	211	88	Jul 04	Oct 05
Italian Industry R&D Liaison	Ennio Vigliani	100	*	Aug 04	Oct 05
Novel Knit Fabric Development and Commercialisation – Completed	Canesis Pty Ltd	1,036	47	Oct 04	Aug 05
Merino as a Performance Fibre					
Development, engineering and initial commercialization of wool containing ergonomic high performance apparel systems and technical products	RMIT University	530	130	Jul 05	Dec 07
Waterproof, Winproof, Breathable Wool Garments	Canesis Pty Ltd	698	192	Mar 06	Sep 07
Launch of Drizabone range	Driza-Bone Pty Ltd	300	*	Jun 06	Jul 07
Turnkey Sports Program	Zspace Pty Ltd, Vision Tex Co Ltd, Zspace Pty Ltd	657	602	Nov 05	May 07

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Application of Wool in Bullet Proof Vest Sector	RMIT University	460	177	Dec 04	Dec 06
Introducing Wool to Automotive Upholstery	Apical International Pty Ltd	283	35	Dec 04	Dec 06
USA Outdoor Retailer Hosiery	Teko, Nester Hosiery, Inc	189	28	Nov 05	Nov 06
Wool Armourline`	Nonwovens Innovation & Research Institute Ltd (NIRI-Leeds University)	460	380	May 05	Sep 06
Performance plus	TWC	691	377	Mar 05	Jun 06
Merino-FORCE	DPK Australia Pty Ltd	213	213	Jun 05	May 06
Wool and Wool Cotton Fire Resistant Clothing	CSIRO Textile & Fibre	244	*	May 05	May 06
Heated Wool Bedding	Canesis Pty Ltd	578	*	Jun 02	Mar 06
Injury Prevention	CSIRO Textile & Fibre	242	242	May 05	Jan 06
Smart Yarn Development	TWC	676	*	Apr 02	Dec 05
Electrostatic Wool Filters	CSIRO Textile & Fibre	1,145	56	Apr 03	Dec 05
Heated Wool Sock Technology Transfer and Commercialisation	Canesis Ltd (Europe)	222	156	Dec 04	Dec 05
Sportwool Fleece	TWC	400	11	Apr 02	Aug 04
Electrospun-membrane wool composite fabrics	CSIRO Textile & Fibre	340	108	Apr 04	Jul 05
High Visibility Wool Garments	Canesis Ltd (Europe)	532	91	Oct 03	Dec 04
Trade/Product Marketing					
Market Information					
Wool production forecasting committee	Australian Bureau of Statistics, Australian Wool Exchange Ltd, Ecoservices Pty Ltd, TWC, University of Melbourne	786	176	Feb 02	Dec 06
Consumer marketing of fine and superfine wool – test marketing in the USA	TWC – The Woolmark Company Pty Ltd	4,700	1,391	Jan 06	Nov 06
Market Intelligence Services by The Woolmark Company	TWC	128	43	Apr 06	Oct 06
Off Farm Business to Business Brand Strategy	Publicis Mojo Pty Ltd	500	86	Apr 06	Aug 06
Market Intelligence Services	TWC – The Woolmark Company Pty Ltd	516	380	Apr 05	Apr 06
Woolcheque Market Pricing Service	Sefton & Associates Pty Ltd, Fresh Web Solutions Pty Ltd, Australian Wool Exchange Ltd	245	85	Jul 04	Dec 05
Net Portal for Brand Technical Support	The Devotion Group PTY LTD, Apical International Pty Ltd	314	304	Jun 05	Dec 05
New Zealand Merino supply chain business model for Australia	The Merino Company Pty Ltd	350	190	Mar 05	Sep 05
Strategic Grower Industry Intelligence	Belgair Graphics Pty Ltd, Dominion Printing Co, The Dominion Group, TWC, TWC – The Woolmark Company Pty Ltd	1,593	22	Aug 01	Jun 04
Market Development					
Dark and Medullated Fibre (DMF) presale screening 1.5% of Australian wool clip	Australian Wool Testing Authority Ltd	255	177	Aug 05	Jan 09
Spunlaced & Thermobonded Non-Woven Wool Materials	Deakin University	304	117	Jul 05	Jul 07
DMF Program Co-ordinator Position	Australian Wool Industries Secretariat, Australian Wool Testing Authority Ltd, CSIRO Textile & Fibre	326	161	May 05	May 07
Cotton/Wool Golf Polo Shirt with Enhanced Functionalities	Esquel Enterprise Ltd	173	46	Sep 05	Feb 07
Tasmanian Merino Brand Supply Chain in Japan	Roberts Ltd, Hori Professional Engineer Office, Austrade – Japan	265	15	Apr 06	Jan 07
Super Light Worsted fibre blend with well-being fibre for Fashion Wear	Tai Fung Textiles Co Ltd	168	90	Jan 06	Nov 06
Machine Washable Suit Commercialisation	Nanjing Yin Dou Advertising Business Ltd Liability	265	106	Oct 05	Sep 06
Yarn/Product Development of Total Easy Care Knitwear for the Japanese Market	IWS Nominee Company Ltd	263	188	Jul 05	Aug 06

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Lightweight Knitwear by PVA	Crystal Sweater Ltd PRC Office – Chan Ping Lang Pei Finishing Factory	130	55	Jan 06	Aug 06
Australian Merino Travel Range	The Devotion Group Pty Ltd, Purely Australian Clothing Co Pty Ltd t/as Purely Merino, Eskimo Pty Ltd	103	87	Feb 06	Aug 06
Merino Fleece Transfer to China and Commercialisation of Merino Active product	Zhejiang Xiniao Textiles Group Co Ltd The Devotion Group Pty Ltd, Ningbo Huafeng Knitting Co Ltd, Manning Selvage & Lee, Haitian Textile Co Ltd, CSIRO Textile & Fibre	101	97	Aug 05	Jul 06
AWI Funding Of Sheep CRC 05/06	Sheep CRC	275	275	Sep 05	Jun 06
Transfer of Easy Care Technology for Wool Blend, trousers, blazers & suits to, and initial commercialisation by Madura Garments, India	CSIRO Textile & Fibre	139	139	Jul 05	Jun 06
Easy Care & Wear Shawl	TWC – The Woolmark Company, India, TWC, The Devotion Group Pty Ltd	259	218	Mar 05	Jun 06
Innovative Ladies wear Merino woven Fabrics for the Chinese domestic market	Global Textiles Associates Ltd	100	93	Jan 06	May 06
Total Easy Care Process and Product with Enhanced Set Effect –TWC Japan	TWC – The Woolmark Company, Japan	128	9	Jun 05	May 06
Relationship between greasy and processed DMF contamination levels	SARDI, Australian Wool Testing Authority Ltd	230	173	Sep 04	Mar 06
SoftWool Project – Basolan 88 Loose Stock Treatment	Novetex	265	125	Jun 05	Jan 06
Merino Supersoft – Kookai	Zhangjiagang Yangtse Spinning, Nationwide Advertising Group, Apparel Management P/L, ABMT	193	79	Apr 05	Dec 05
Anti Moth Treatment for Wool Apparel – using Nano Tech	TWC – The Woolmark Company (HK) Ltd, NP Tech – Nano Technology, I.W.S Nominee Co Ltd, Australian Wool Testing Authority Ltd	155	155	Sep 05	Dec 05
Dark and medullated fibre risk random screening program	Australian Wool Testing Authority Ltd	163	*	Jul 04	Sep 05
Implementation of dark & medullated fibre measurement standards – stage 2.	Australian Wool Industries Secretariat	207	57	Feb 04	Aug 05
Trade Access					
Integrated Web Based Wool Supply Chain Management System – From Retailer/ Manufacturer to Grower	Graeme Forsythe & Associates Pty Ltd	224	67	Nov 05	Mar 07
Wind Factor – Wool Fleece (Bonding/Laminating Project)	Texmaco	270	100	Aug 05	Feb 07
Business Support for AWI	Apparel Management P/L	119	91	Nov 05	Nov 06
China FTA Strategy – Management of Stage 2 Process	ITS Global	164	23	Apr 06	Nov 06
Intissel Woollen Non Woven	Intissel	200	70	Jun 05	Aug 06
“Ceramic – Cool” Lightweight Suits	TWC – The Woolmark Company, Japan, CSIRO Textile & Fibre	145	82	Jul 05	May 06
China FTA Negotiation	Zhao Yutian, S G Heilbron Pty Ltd, Monash University re Centre of Policy Studies, John W Longworth, H G Heilbron, Glen Joseph Productions Pty Ltd, Trading as Spinifex Interactive, Cox Inall Communications Pty Ltd	104	52	Nov 05	Dec 05

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Wool Production					
Profitable Grazing for Wool Sheep					
Lifetime Wool Production	Department of Primary Industries, Victoria	7,526	814	Oct 03	Sep 08
The National Rhizobium Program 2002-2007.	Grains Research & Development Corporation	958	319	Jul 05	Jun 08
Facilitator – Decision support for grazing systems	CSIRO Plant Industry	550	179	Apr 05	May 08
Developing new and innovative perennial Lotus species for grazing systems	NSW Agriculture	1,267	249	Aug 02	Feb 08
Surface-applied lime to ameliorate acid soils – NSW Agriculture	NSW Agriculture, NSW Department of Primary Industries	517	136	Jul 04	Jan 08
Phalaris Improvement	CSIRO Plant Industry	611	66	Dec 00	Dec 07
Grain and Graze	Land and Water Australia	3,000	750	Oct 04	Oct 07
Validation and Communication of Evergreen Farming Systems	Evergreen Farming	528	176	May 04	Apr 07
Increased Adoption of Timerite to Improve Feed Utilization	Channel Enterprises Pty Ltd, CSIRO Entomology	150	102	Mar 03	Dec 06
NAPLIP Interim Funding for the Northern Grain Belt	CSIRO Sustainable Ecosystems	100	100	Jul 05	Jul 06
Pasture Legumes for the alkaline soil zone (SA)	SARDI	125	125	Jul 05	Jul 06
Soil Biology Program	Meat & Livestock Aust	1,125	300	Jul 03	Jun 06
Increased Investment in NAPLIP	Applied Economic Solutions Pty Ltd, SARDI, The University of Adelaide	1,351	249	Jul 03	Jun 06
Plant Breeding Co-ordinator	Abbott Innovation Pty Ltd	100	30	Sep 04	Jun 06
Benchmarking with GrassGro	CSIRO Plant Industry	390	74	Dec 02	Jun 06
NAPLIP (High Rainfall Zone) Pastures Research On Farm	Dept of Natural Resources & Environment	442	*	Nov 00	Jun 06
Use of Stockplan to manage the production, social and environmental impacts of climate variation	NSW Agriculture	181	*	Apr 04	Sep 05
Decision Support Tools to Enhance Wool Producer's Profitability	The University of New England	352	28	Jun 02	Aug 05
Effective biological control of Paterson's curse and thistles	Agriculture Western Australia, CSIRO Entomology, Dept of Natural Resources & Environment, Dept of Sustainability and Environment, DPS Strategy Pty Ltd, Meat & Livestock Aust, NSW Agriculture, NSW Department of Primary Industries, SARDI	876	42	Apr 98	Jun 05
Improved Farming System for Degraded Soil in High Rainfall Zone of SE Australia	Cummings Pasture Service, NSW Agriculture, NSW Department of Primary Industries	345	89	Jan 04	Sep 04
Natural Resource Management					
Review of RHD in rabbits and monitoring for genetic resistance to the disease	Invasive Animals Cooperation Research Centre – University of Canberra	599	133	Apr 06	Jan 07
Land, Water and Wool	Land and Water Australia	19,150	2,850	Dec 01	Jun 06
Animal Health and Welfare					
A Vaccine for Wool Production	CSIRO Livestock Industry, Els Meusen	4,553	673	Jan 03	Dec 10
Evaluation of breeding to reduce breech strike susceptibility	Agriculture Western Australia, CSIRO Livestock Industry	1,978	395	Jul 05	Jul 10
Eradication of virulent ovine footrot by sequential specific vaccination	University of Sydney	1,102	264	May 05	May 10
Increased Resources for Mulesing Alternative Project and other High Priority Research Projects at the University of Adelaide	The University of Adelaide	1,372	137	Mar 05	Dec 09
Development of a vaccine against annual ryegrass toxicity	Meat & Livestock Aust, CSIRO Livestock Industry	416	-95	Jun 06	Dec 08
Development and Augmentation of Poison Baits with Enhanced Canid Specification	Pest Animal Control CRC(sms)	3,178	1,066	Feb 03	Aug 08

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Revisiting the mules operation	University of Sydney	319	70	May 05	Jul 08
Environmentally friendly insecticides targeting the sheep blowfly ecdysone receptor	CSIRO Livestock Industry	1,615	470	May 05	May 08
Commercialisation of Improved Footrot Diagnosis	The University of New England	441	230	Mar 05	Mar 08
Genomic analysis and transformation of <i>Lucilia cuprina</i>	Massey University, University of Melbourne	1,482	445	Oct 04	Feb 08
Trials to evaluate field efficacy of current mulesing alternatives	Veterinary Health Research Pty Ltd	160	40	Oct 05	Nov 07
Development of diagnostic assays for sheep nematodes based on faecal antigen detection	Meat & Livestock Aust	123	31	Oct 05	Jul 07
IPM Lice Management Model	Queensland Government Dept of Primary Ind	504	244	Jul 04	Jun 07
Welfare impacts of mulesing alternatives	Animal Welfare Centre, & Ors	259	123	Jul 05	Jan 07
Integrated parasite management for sheep (IPM-s)	The University of New England	2,711	835	Aug 03	Jan 07
Enhancing Australia's Diagnostic and Surveillance Capabilities for Diseases (Sheep & Goat Pox) Caused by Capripox Viruses	CSIRO Livestock Industry	1,416	472	Nov 03	Nov 06
Clip and Applidyne Injector developments 2006	Applidyne Pty Ltd	888	360	Jan 06	Oct 06
Survey of pesticide residues on greasy wool 2005/06	CSIRO Textile & Fibre	115	72	Sep 05	Sep 06
National Mulesing Accreditation Program	Agriculture Western Australia	285	185	Jan 04	Aug 06
Veterinary pharmaceutical and toxicological support services for the AWI Animal Health and Welfare Program	Advanced Veterinary Therapeutics, Meat & Livestock Aust	125	21	Sep 03	Jul 06
Delivery of chemical lures for improved control of feral canids.	Pestat Ltd	199	139	Oct 04	Jul 06
Norwood Abbey mulesing applicator technology	Norwood Abbey Ltd	230	181	Aug 05	Jul 06
Breech Strike Prevention Technology	CSIRO Livestock Industry	256	*	Apr 00	Jul 06
Continued development of collagenase alternative to mulesing	Adelaide Research & Innovation Pty Ltd	266	238	Jul 05	Jul 06
Development and Field Validation of a Lice Detection Test	NSW Agriculture	351	47	Apr 03	Jun 06
Mulesing needleless applicator	Cobbett Pty Ltd	148	128	Sep 05	Apr 06
IGR resistance in sheep lice and blowflies	NSW Agriculture	157	95	Apr 04	Mar 06
Fungal biopesticide control of the Australian sheep blowfly and the sheep body louse.	Queensland Government Dept of Primary Ind	301	100	Nov 04	Mar 06
Formulation of AWI formulations for use in alternatives to mulesing	Victorian College of Pharmacy (Monash university)	121	50	Mar 05	Mar 06
Invetech mulesing applicator development	Invetech Operations Pty Ltd	351	285	Jun 05	Jan 06
Engineering services to develop mulesing alternatives	Applidyne Pty Ltd	391	283	Jul 05	Jan 06
Anthelmintic investigation and other pharmaceutical consultancy services	Baron Strategic Services Pty Ltd	108	*	Oct 02	Jan 06
Sheep Ectoparasite Control with New Isolates of <i>Bacillus Thuringiensis</i>	CSIRO Livestock Industry	155	*	Jul 04	Dec 05
Pesticide Residue Testing survey 2004/2005	CSIRO Textile & Fibre	117	17	Sep 04	Sep 05
Eradication of Virulent Footrot	Agriculture Western Australia	412	*	Sep 02	Sep 05
Flystrike data analysis	Dept of Primary Industries, Water & Env	169	52	Apr 04	Aug 05
Project Management EC041 'Alternative to mulesing' – Dr Jim Rothwell	Dr J Rothwell, Genesis Industries (Australia) Pty Ltd	289	73	Jun 04	Dec 04
WormMaster Coordination	Mike Stephens & Associates Pty Ltd	295	57	Nov 02	Sep 04
Depilation Technologies	The University of Adelaide	105	52	Sep 03	Jul 06
Pesticide Residue Testing for quality assurance groups Services C/T A	CSIRO Textile & Fibre, Australian Wool Testing Authority Ltd	280	12	Sep 01	Oct 04
Improved Footrot Diagnosis	MAC Stats & Analysis, The University of New England	302	10	May 02	Mar 05

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Molecular Genetics					
Harnessing the bovine and other mammalian genomes for ovine research and applications	Meat & Livestock Aust	354	67	Sep 05	Jul 08
Provision of a comprehensive integrated map and information on ovine single-locus traits	Meat & Livestock Aust	137	26	Feb 06	Jul 08
Bioinformatics Coordinator	Meat & Livestock Aust	195	*	Jan 06	Jul 08
Muscle Sub-Program Phenotyping R&D	Meat & Livestock Aust	200	20	Jan 06	Jul 08
Molecular dissection of muscle and growth related traits in sheep	Meat & Livestock Aust	238	*	Jan 06	Jul 08
Enhancing bioinformatics resources for sheep gene mapping	Meat & Livestock Aust	290	*	Oct 05	Jul 08
Enabling technology for Testing Gene Function in Wool Follicle Growth and Development	Meat & Livestock Aust, AgResearch	361	180	Sep 05	Jul 08
Discovering Genes for Susceptibility to Haemonchus contortus Infestation	University of Sydney, Meat & Livestock Aust	383	191	Mar 05	Jul 08
Bioinformatics Integrated Databases	Meat & Livestock Aust	389	101	Sep 05	Jul 08
Wool Biology SPL for SGP	The University of Adelaide, Meat & Livestock Aust	138	42	Apr 05	Jun 08
SGP Sub-Program Leader Muscle and Energy	Meat & Livestock Aust	147	32	Apr 05	Jun 08
Genomics of fleece patterning in Merino sheep	Meat & Livestock Aust, AgResearch	320	120	Sep 05	Jun 08
SG301 Identification of therapeutic molecules for increasing follicle density and reducing follicle appendage formation	The University of Adelaide	391	104	Mar 04	Apr 08
SGP Sub-Program Leader Core Technologies	Meat & Livestock Aust	147	52	Dec 04	Dec 07
Wool follicle relationship identification of the founder cell population	University of Western Sydney	234	140	Mar 04	Nov 07
MLA/AWI Mapping Flock FMFS	Falkiner Memorial Field Station (FMFS)	323	177	May 06	Oct 07
Characterisation of genes critical in the sheep/ Haemonchus relationship	University of Sydney	100	60	Nov 05	Aug 07
Secondary Wool Follicle Development	CSIRO Livestock Industry	168	80	Feb 04	Aug 07
Development of cellular resources to support expression profiling and proteomic studies in defined genotypes/Muscle and Energy Utilisation Sub-Program Project 4	Meat & Livestock Aust	157	39	Jun 03	Jul 07
Expression Profiling and Gene Discovery in the Wool Follicle – Characterisation of the Spatiotemporal Programme of Expression of Key Molecules Involved in Wool Follicle and accessory Gland Development and Function	The University of Adelaide, Meat & Livestock Aust	299	48	Jul 04	Jun 07
GINTIP – Novel Approaches for Control of Sheep Nematode Parasites	Meat & Livestock Aust	425	161	Jan 04	Apr 07
Identification of Major Genes and Proteins Responsible for Muscle Hypertrophy and Leanness in Callipyge and Carwell Sheep	Meat & Livestock Aust	235	85	Jan 04	Jan 07
Discovering Genes Involved in Resistance to Gastrointestinal Nematodes (GIN) in Sheep-Candidate Gene Approach	CSIRO Livestock Industry	186	53	Jan 04	Jan 07
MEUSP Proteomics	Meat & Livestock Aust	232	77	Feb 04	Dec 06
Discovering Genes for Susceptibility to Haemonchus contortus Infestation	University of Sydney	753	*	Dec 03	Dec 06
Detection of genes which significantly influence parasite resistance and skin and wool attributes – Part 1 Gene Mapping	Meat & Livestock Aust	274	110	Jul 03	Nov 06
GINTIP Novel approaches for control of sheep nematode parasites	Meat & Livestock Aust	299	30	Jun 03	Oct 06
GINTIP Toward Novel Approaches for the control of Parasitic Nematodes of Sheep	Meat & Livestock Aust	268	*	Jun 03	Aug 06
GINTIP Validation of Thoil metabolism as a drug target for parasitic nematodes	Meat & Livestock Aust	275	*	Mar 03	Aug 06
GINTIP Validation of putative drug targets for control of Haemonchus contortus (AHW.049)	Meat & Livestock Aust	111	22	Aug 04	Aug 06

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Discovery of Genes Involved in Resistance to Gastro-intestinal Nematodes in Sheep High Throughput Identification of Genes Involved in Resistance to GIN	CSIRO Livestock Industry	329	180	Jul 03	Aug 06
SGP Sub-Program Leader HRIP	Meat & Livestock Aust	144	44	Jan 05	Jul 06
GINTIP – MLA Agent - Development of Gene Silencing in the Parasitic Nematode Haemonchus contortus	Meat & Livestock Aust	296	156	Jan 03	Jul 06
Development of in vitro assays measuring resistance to nematode infection in sheep	Meat & Livestock Aust, University of Melbourne	187	31	Jul 04	Jul 06
GINTIP Analysis of Sheep, Haemonchus contortus relationship (AHW.024)	Meat & Livestock Aust	206	33	Jun 03	Jun 06
AWI Sheep Genomics Program Mapping Flock: FMFS	Falkiner Memorial Field Station (FMFS)	507	279	Oct 04	Jun 06
GINTIP Drug discovery in sheep nematodes by functional genomics in Caenorhabditis elegans Crutchless Mutation	Meat & Livestock Aust	225	55	Jun 03	Jun 06
	Brecon Breeders, Calcookara Stud, Lincoln Veterinary Centre, Luke Ramsey, Meat & Livestock Aust, P.Mills, PA & J.L Webb, S.F + T.J Wildman, The University of Adelaide	159	37	Dec 04	Mar 06
Ovine proteins potentially involved in host resistance to gastrointestinal nematodes	CSIRO Livestock Industry	125	25	Sep 04	Feb 06
The molecular genetics of meat production in sheep: new Genes that affect muscle phenotypes.	Meat & Livestock Aust	149	75	Mar 04	Jan 06
Phenotypic characterisation of sheep genetic variants	Meat & Livestock Aust	143	57	Oct 03	Dec 05
Phenotypic characterization of sheep genetic variants	Meat & Livestock Aust	174	76	Oct 03	Dec 05
End Sequence 56,000 selected clones from the CHORI-243 ovine BAC library	Meat & Livestock Aust	180	182	Mar 05	Dec 05
Extension of Sheep Gene Map and Associated Tools – Jill Maddox Project	Meat & Livestock Aust	120	20	Nov 02	Dec 05
Golden Ram	The University of New England	950	*	Jul 02	Nov 05
Genotyping Sheep with Diversity Arrays	Centre for the Application of Molecular Biology to Intern Agriculture, Future Livestock Pty Ltd	356	50	Nov 02	Nov 05
Applied Genetics and Wool Quality					
National Merino Bloodline Evaluation (Support, Analysis and Research)	Meat & Livestock Aust, NSW Department of Primary Industries	380	108	Dec 04	Jun 09
QA Program Implementation AWEX – OFFM Phase two	Australian Wool Exchange Ltd	480	60	Feb 04	Jul 08
Investigate and apply innovation in Merino Sire Evaluation	Australian Merino Sire Evaluation (AMSEA), Meat & Livestock Aust	211	78	May 05	Dec 07
Reaping the rewards of the Qplu\$ Project.	NSW Department of Primary Industries	147	57	Sep 05	Aug 07
Analysis and Reporting of National Merino Sire Evaluation	Australian Merino Sire Evaluation (AMSEA), University of Melbourne – AMSEA	420	84	Aug 04	Feb 07
Sheep CRC rebid process	Meat & Livestock Aust, The University of New England	113	43	Oct 05	Oct 06
Australian sheep genetics database management	Meat & Livestock Aust	810	429	Apr 04	Jul 06
SARDI Selection Demonstration Flock	Farming Systems Analysis Service, SARDI	1,409	190	Oct 01	Jun 06
Understanding the Breeding Decisions of Merino Wool Producers	Department of Primary Industries, Victoria	222	47	Mar 05	Jun 06
Operational and Administrative Support for Merino Sire Evaluation in Australia	Australian Merino Sire Evaluation (AMSEA)	200	29	Feb 03	Mar 06
OFFM Extension & adoption	Currie Communications P/L, GMAC Consulting Pty Ltd, International Fibre Centre Limited, NSW Agriculture, Roberts Evaluation Pty Ltd, South West Institute of TAFE	1,094	99	Dec 02	Jan 06

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OFDA4000 Comparison on TEAM and Sale Lot Tops	Australian Wool Testing Authority Ltd	106	106	Jan 05	Oct 05
On-Farm Yield Prediction	Interactive Wool Group Pty Ltd	101	20	Nov 04	Sep 05
Dark and medullated fibres mill survey and cost benefit study	CSIRO Textile & Fibre, Teckel Consulting Pty Ltd	314	30	Feb 04	Apr 05
Development of a highly heritable correlate of Staple Strength	Australian Wool Testing Authority Ltd, CSIRO Textile & Fibre, Department of Agriculture of Western Australia (DAWA)	559	30	Jan 04	Feb 04
Wool Harvetsing					
Shearer and Woolhandler Training – Evaluation 06/07	Field Learning Pty Ltd	122	5	Jun 06	Jun 07
Shearer and Woolhandler Training - Project Management – Ross Pollock 06/07	Y & R Consulting Pty Ltd	149	*	Jun 06	Jun 07
Shearer and Woolhandler Training – NSW State Allocation Training/ Delivery 2006/07	TAFE NSW – New England Institute, TAFE NSW – Western Institute	151	*	Jun 06	Jun 07
UPSP stage 1 & 2 commercialisation	AD & JA Grigg, Advance Shearing Services, David Kemp, Flood Shearing Contractors, GJ & SJ Leersen Shearing Contractors, Peak Hill Industries Pty Ltd, PJ and LD Stephens, Pyksis Pty Limited, Qualshear Pty Ltd, R. M. Baldwin (Shearing) Pty Ltd	133	61	May 05	May 07
Handpiece safety – deadman switches – stage 2	HRL Technologies Pty Ltd, Lyco Industries Pty Ltd	215	36	Dec 05	Dec 06
Shearer & Wool Handler Training Evaluation	Field Learning Pty Ltd	196	80	Oct 04	Jul 06
Project Manager – Shearer and Wool Handler Training – Ross Pollock	Y & R Consulting Pty Ltd	130	126	Aug 05	Jul 06
Shearer & Wool Handler Training - WA	Challenger TAFE, Great Southern Regional TAFE, Lens & Shutter Pty Ltd, WA Shearing Contractors Association Inc (WASCA), Western Aust.Farmers Federation(Inc)	352	190	Jul 04	Jul 06
Shearer and Wool Handler Training – Resource development 2005/06	Lens & Shutter Pty Ltd, Primary Skills Victoria, Sheep CRC	152	152	Jul 05	Jun 06
Shearer & Wool Handler Training Resource & Professional Development	Allen White, D & K Billingham, DNR Group Pty Ltd, Field Learning Pty Ltd, Lens & Shutter Pty Ltd, Sheep CRC, Sports Shear Queensland Inc, TAFE NSW - Western Institute	232	11	Jun 04	Jun 06
UPSP Stage 1 – UPSP suppliers & technical consultants	Allen White, Bearfacts Consulting Pty Ltd, Catford Engineering, ManuTech (VIC) P/L, Michael Lawrance and Associates Pty Ltd, Peak Hill Industries Pty Ltd, Prattley Industries Ltd, Shearing Industry Consultants, SLAMP Ltd, Tectra Limited, WAUPSP	2,249	882	Apr 04	Jun 06
Skunkworks – technology review - chemical/ biological harvesting – stage 2	Miracle Dog P/L	102	80	Jun 05	Feb 06
Estimating market demand for a series of shearing platform system concepts	TQA Research	172	*	Jun 04	Dec 05
Wool harvesting technologies search	ManuTech (VIC) P/L	548	42	Sep 03	Dec 05
Project Manager – Shearer & Wool Handler Training	Ross A Pollock	189	*	May 04	Jul 05
Shearer & Wool Handler Training – QLD	Agforce Queensland, Queensland Rural Industry Training Council Inc (QRITC Inc)	107	65	Jul 04	Jun 05
Shearer & Wool Handler Training – SA	Ausgrow Training, TAFE SA	184	137	Jul 04	Jun 05
Shearer & Wool Handler Training – VIC	Gordon Institute of TAFE, Primary Skills Victoria, SCAA Shearer Shedhand Training Incorporated, University of Ballarat, University of Melbourne	264	182	Jul 04	Jun 05

Project Title	Provider	Full Contract Value (\$000's)	Paid in 2005/2006 (\$000's)	Start date	Finish date
Shearer & Wool Handler Training – NSW	Agforce Queensland, TAFE NSW – New England Institute, TAFE NSW – Western Institute, Wool Industry Training Australia Pty Ltd	403	292	Jul 04	Jun 05
Education and Adoption					
Bestwool/Bestlamb – VIC Extension Program	Department of Primary Industries, Victoria	596	116	Dec 05	Dec 08
Expansion, Operation and Promotion of the Sheep CRC and Beef CRC Livestock Library	Sheep CRC	197	70	Mar 05	Jul 08
AWI/CRC On-Farm Scholarships	Sheep CRC	1,200	149	May 05	Jun 08
Scholarship and Studentship Program	Various	2,824	627	Jul 03	Jun 08
Wool 4 Wealth – NSW Extension Program	John McKenzie & Associates Pty Ltd, Mike Stephens & Associates Pty Ltd	1,835	280	Nov 04	Nov 07
Farm Health and Safety Joint Venture 2002/2003 to 2006/2007	Rural Industries R & D Corp	300	*	Jul 02	Sep 07
Leading Sheep – QLD Extension Program	Dept of Primary Industries & Fisheries, QLD Government, John McKenzie & Associates Pty Ltd	999	315	Sep 04	Aug 07
The Sheeps Back – WA Extension Program	JRL Hall & Co	1,005	322	Sep 04	Jun 07
Bestprac Phase II – Rangelands Extension Program	Rural Directions Pty Ltd	1,024	171	May 03	May 07
Project Management – Education and Adoption – Wool Production	Smith Comyn & Associates	101	18	Jan 06	Jan 07
AWI School Resources and Projects	Sheep CRC	178	173	Jan 04	Dec 06
The Cicerone Project – Harvest Year	The Cicerone Project Inc.	176	159	Nov 05	Nov 06
Development and national delivery of multi media wool University degree units	Sheep CRC	415	163	Oct 03	Oct 06
Develop a specialised approach to recruiting wool producers into extension and adoption activities.	J T Agri-Source Pty Ltd	172	77	Jan 05	Aug 06
8x5 Wool Profit Program – TAS Extension Program	University of Tasmania	1,757	56	May 02	Jul 06
Project Manager – Grower Adoption Programs	Peter Hanrahan Consulting Pty Ltd	211	107	Apr 04	Jul 06
SheepPlus – SA Extension Program	Primary Industries And Resources SA	330	78	Sep 03	Jun 06
Development of Triple P Beyond the Paired Paddock – Mike Stephens & Associates	Mike Stephens & Associates Pty Ltd	307	10	Sep 01	Jun 06
Survey of farm financial performance in the sheep industry 2004 & 2005	Australian Bureau of Agriculture Resource Economics (ABARE)	644	51	Oct 03	Jun 06
Australian Rural Leadership Program – (ARLP)	Australian Rural Leadership Foundation Limited	181	46	Nov 03	Jan 06
Network for High Performing Producers	University of Melbourne – AMSEA	224	51	Nov 04	Dec 05
The Cicerone Project – Phase II	RPC Solutions Pty Ltd, The Cicerone Project Inc.	179	*	Jun 04	Aug 05
Corporate Affairs					
Beyond the Bale	Good Darts Communications, Coretext Pty Ltd	934	342	Jul 05	Jun 06
AWI Forums	Meat & Livestock Aust, Currie Communications Pty Ltd, Australian Business Theatre Pty Ltd	446	258	Jul 05	Jun 06
World Merino Conference	Stud Merino Breeders Association of WA (SMBAWA), Sefton & Associates Pty Ltd, Australian Business Theatre Pty Ltd	132	80	Jul 05	Jun 06

Project Title	Provider	Full Contract Value (\$000's)	Paid in 2005/2006 (\$000's)	Start date	Finish date
Media	Spin Communications Pty Ltd, Sefton & Associates Pty Ltd, GRS Communications, Cox Inall Communications Pty Limited, Corporate Ambience Pty Ltd	132	82	Jul 05	Jun 06
Fashion communication activities	Corban & Blair, Creative Justice, Eva Kossoff Designs, Kate de Brito, Nationwide Advertising Group, Screen Pty Ltd, Spruson&Ferguson, The Names Agency	152	98	Jul 05	Jun 06
Establish partnerships with four Australian fashion designers	Elias Brunsdon Pty Ltd, Josh Goot, Tina Kalivas, woolliwoolli	208	180	Jul 05	Jun 06
		186,706	49,026		
	Projects with a value of less than \$100K (395 projects)	13,955	6,470		
	Confidential projects		5,140		
	Ancillary costs		1,781		
	Total contract payments		62,417		
	Movement in accruals		(628)		
	Total RDI expenditure		61,789		

* Work underway; no amounts invoiced during the year ended 30/06/06

Appendix C – IP table

Below is a table of registered intellectual property that is owned by AWI or in which AWI has an interest.

PATENTS (registered in Australia and overseas)

- Iron regulated promoter and uses thereof
- Semi-automated manipulator for manual shearing
- Head restraint for animal manipulator
- Doffing animal coat and fleece removal
- Sheep handling and manipulation for automated shearing
- Docking mechanism for use in treating or shearing animals
- Fungal sulphur source and method of using the same
- Veterinary formulation
- DNA encoding ovine adenovirus and its use as a viral vector
- Improving the availability of nutrients in a ruminant using piromyces or neocallimastix fungi
- Saponin Adjuvant Composition
- Enzyme based bioremediation
- Malathion carboxylesterase
- Expression of phytase in plants as a method of modifying plant productivity
- Improved process & Apparatus for stretching Slivers of animal fibre
- Inclined Blade
- Control circuit for a power driven tool and touch activated system shearing system incorporating same
- Handling apparatus for a quadruped
- Limb restraint
- Animal handling system
- Method of harvesting wool
- A restraint
- Apparatus for spreading a sheet-like article
- Animal processing conveyor
- Apparatus for use in harvesting wool
- Mobile collapsible shelter
- Chemically assisted protein annealing treatment
- Sorting pneumatically conveyed material
- Continuous pressure decatizing of fabrics and setting of staple fibre assemblies
- Device for sampling liquids
- A rotary cutting device

PATENTS (registered in Australia but not overseas)

- Larval development assay
- Detection and isolation of, and protective immunisation against, the phomopsis mycotoxins
- Vaccine and assay
- Saponin Adjuvant Composition
- Method for treating animals
- Method of louse control using compositions derived from Bacterium Bacillus
- Method for separating keratinous proteins from materials
- Paper products for colour printing
- Fibre coating composition
- Coating composition
- Semi-synthetic material
- Shearing Platform
- Treatment of sheep to reduce flystrike

PATENTS (registered overseas but not in Australia)

- Heated Wool Textile
- Heated Wool Garment System
- Apparatus for supporting an animal and a production line for processing and animal incorporating said apparatus
- A rotary cutting device having adjustable tension
- Sharpening Apparatus

REGISTERED DESIGNS (registered in Australia and overseas)

- A liquid sample collection card

TRADEMARKS (registered in Australia and overseas)

- Australian Wool Innovation Ltd & Device
- Australian Wool Innovation (words only)

TRADEMARKS (registered in Australia but not overseas)

- Siromin
- Si-ro-mark
- Future Fleece
- Grassgro
- Timerite
- Triple P
- Woolpro
- Rampower
- Wool Profit Map
- Rural Connect
- Woolpoll & rams head device
- Wormboss
- Woolcheque

PLANT VARIETIES (registered in Australia but not overseas)

- Barrel Medic – Caliph
- Cefalu Clover
- Yellow Serradella – Santorini
- French Serradella – Cadiz
- Persian Clover – Nitroplus
- Persian Clover – Persian Prolific
- Serradella – Charano
- Subterranean Clover – Denmark
- Subterranean Clover – York
- Subterranean Clover – Urana
- Prima Gland Clover
- French Serradella – Margurita
- French Serradella – Erica
- Barrel Medic – Jester
- Burr Medic – Cavalier
- Burr Medic – Scimitar
- Balansa Clover – Bolta
- Balansa Clover – Frontier
- Disc Medic Rivoli
- Medic – Toreador
- Persian Clover – Kyambro
- Subterranean Clover – Goulburn
- Subterranean Clover – Gosse
- Sweet Clover – Jota
- Napier Sub Clover
- Persian Clover – Morbulk
- Subterranean Clover – Leura
- Subterranean Clover – Riverina
- Coolamon Sub Clover
- Izmir Sub Clover
- Mauro Biserrula
- Yelbini Yellow Serradella
- Lucerne – Super 7
- Lucerne – Aquarius
- Lucerne – Eureka
- Lucerne – Genesis
- Lucerne – Hallmark
- Lucerne – Jindera
- Lucerne – Sceptre
- Lucerne – Sequel HR
- Lucerne – Venus
- Phalaris – Atlas PG
- Phalaris – Australian II
- Phalaris – Holdfast
- Phalaris – Landmaster
- Wallaby Grass – Bunderra
- Wallaby Grass – Taranna
- Subterranean Clover – Mintaro
- Lusa Persian clover
- Wilpena sulla
- Moonbi Sulla
- White Clover – Nusiral

SOFTWARE (registered in Australia but not overseas)

- Sirodec Software
- Portfolio Management System

New IP lodged or acquired in 2005/06

PATENTS (registered in Australia and overseas)

- Method for separating keratinous proteins from materials

PATENTS (registered in Australia but not overseas)

- A fibre coating process
- Method for administering a composition to an animal
- Animal restraining device
- Raised shearing platform

TRADEMARKS (registered in Australia and overseas)

- Merino Active & logo
- Posh Merino

TRADEMARKS (registered in Australia but not overseas)

- Bestprac
- Merino Innovation & device
- Merino Superior Sires
- Red Island
- SGP

The Australian Merino

Quality, sustainable wool production matters. It matters to our woolgrowers and it matters to our international partners.

The Australian Merino fibre is a significant contributor to the Australian economy and has a remarkable range of natural attributes. The fineness of the Merino fibre makes it soft and provides great insulation. The fibre shape makes it water repellent and helps resist stains, while its ability to absorb moisture aids breathability and contributes to odour resistance.

Synthetics like polyester and nylon, on the other hand, are created in the laboratory, and to this point, no man-made fibre has come close to replicating Merino's naturally occurring combination of attributes. Polyester and nylon are also made from petrochemicals, an eminently exhaustible resource.

Australian Merino wool is a natural, biodegradable and renewable resource. Every year, a new fleece grows on the sheep's back on both natural and improved pastures, and is removed without harm to the animal.



Producing a quality product

Australia is the world's largest producer of Merino wool. Accounting for more than half the world production of apparel wool, Australian woolgrowers are world-leaders in quality wool production.

One quarter of Australia is used for Merino wool production, sourced from a diverse and challenging range of geographical and climatic regions.

The Australian wool industry with the support of the Australian Government and AWI is investing in the sustainable production of the highest quality 'clean, green' wool.

Australian wool made up 51 per cent of the total used in wool apparel worldwide in 2004 and is exported to 52 countries around the world.

This wool is sourced from Australia's 35,000 sheep and wool farmers who produce 475,000 million kilograms of wool annually.

The wool industry manages land resources across an enormous range of conditions: from the desert to the ocean with one of the most variable climates on earth.

Australia's Merino wool offers unrivalled excellence and performance: our farmers have the sustainable production systems, heritage and know-how to continue to offer our customers the best wool in the world – long into the future.

Information on our activities and products are available via publications, events and online. For more information:

- visit www.wool.com.au
- email info@woolinnovation.com.au
- call the AWI Helpline on 1800 070 099 (free call within Australia)

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